AGENDA IRVINE RANCH WATER DISTRICT BOARD OF DIRECTORS REGULAR MEETING

December 11, 2023

CALL TO ORDER 5:00 p.m.

PLEDGE OF ALLEGIANCE

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

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=m77aedf9cb87b91206f140c0ce72f6b8c

Meeting Number (Access Code): 2498 109 3188

Meeting Password: : aaVWRwCc948 (22897922 from video systems)

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, December 11, 2023.

COMMUNICATIONS TO THE BOARD

- 1. Written:
- 2. Oral:
- 3. <u>ITEMS RECEIVED TOO LATE TO BE AGENDIZED</u>

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

PRESENTATIONS

4. PROCLAMATIONS

Proclamations will be presented to Mr. Frank Soto for his 24 years of service and to Ms. Julie Bendzick-Sin for her 20 years of service to the District.

CONSENT CALENDAR, Items 5 through 11

5. BOARD MEETING MINUTES

Recommendation: That the minutes of the November 27, 2023 Regular Board meeting be approved as presented.

6. <u>2023 – 2024 LEGISLATIVE AND REGULATORY UPDATE</u>

Recommendation: That the Board authorize the District to sponsor legislation in 2024 to establish state policy to encourage and incentivize, but not mandate, the development of emergency water supplies, and to support the use of emergency supplies during times of water shortage, and to sponsor legislation in 2024 to clarify existing law that the cost associated with peak water usage should be reasonably allocated to the parcels served by a water service provider and that those costs could be allocated based on meter size, peaking factors, or any other method consistent with Proposition 218.

7. NOVEMBER 2023 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 November 2023 summary of payroll ACH payments in the total amount of \$ \$2,643,092, and approve the November 2023 accounts payable disbursement summary of warrants 439246 through 439829, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the total amount of \$19,169,707.

8. PROPOSED 2024 INVESTMENT POLICY

Reso. 2023-17

Recommendation: That the Board adopt a resolution superseding Resolution No. 2022-18 and approving an Investment Policy and authorizing the Treasurer and Assistant Treasurers to invest and reinvest funds of the District and each of its Improvement Districts and to sell and exchange securities.

CONSENT CALENDAR (CONTINUED)

9. IRWD GENERAL COUNSEL CONTRACT FOR 2024

Recommendation: That The Board authorize the General Manager to execute a Professional Services Agreement with Hanson Bridgett LLP for general counsel legal services focused on municipal law, transactional and non-complex issues, and rate-setting with a term of January 1, 2024, to December 31, 2024, and a not-to-exceed value of \$1,235,000.

10. VARIANCE TO THE LETTER OF ENGAGEMENT WITH FISHER PHILLIPS

Recommendation: That the Board authorize the General Manager, or his designee, to execute a variance to the Letter of Engagement with Fisher Phillips for legal services related to human resources related litigation increasing the not-to-exceed value of the contract by \$600,000.

11. <u>TEMPORARY STAFFING PROFESSIONAL SERVICES AGREEMENT VARIANCE</u>

Recommendation: That the Board authorize the General Manager to execute a variance for an amount not-to-exceed \$200,000 with Operational Technical Services LLC for temporary staffing services.

ACTION CALENDAR

12. <u>36-INCH TRUNK SEWER PROTECTION WITHIN THE SAN DIEGO CREEK</u> AT STATE ROUTE 133 CONSTRUCTION AWARD

Recommendation: That the Board authorize a budget increase in the amount of \$1,530,000, from \$1,223,000 to \$2,753,000 for project 12125, and authorize the General Manager to execute a construction contract with Charles King Company in the amount of \$2,593,600 for the 36-inch Trunk Sewer Protection within the San Diego Creek at State Route 133, project 12125, and that based on the Caltrans Final Mitigated Negative Declaration, the Board in its independent judgement and analysis finds that with mitigation, there is no substantial evidence that the project will have a significant effect on the environment; and authorize staff to post and File a Notice of Determination..

13. <u>DRAFT TERMS FOR SHORT-TERM EXCHANGE PROGRAM WITH SILVERTIP, LLC</u>

Recommendation: That the Board authorize the General Manager to execute a Short-Term Exchange Program Agreement with Silvertip LLC based on the draft terms presented subject to substantive changes approved by Committee and special Legal Counsel.

IRWD Board of Directors' Meeting December 11, 2023 Page 4

ACTION CALENDAR (CONTINUED)

14. ELECTION OF OFFICERS FOR 2024

Recommendation: That the election be conducted of the President and Vice President of the Board of Directors of the Irvine Ranch Water District for 2024.

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.

- 15. General Manager's Report
- 16. Receive oral update(s) from District liaison(s) regarding communities within IRWD's service area and interests.
- 17. Directors' Comments and Meeting Reports
- 18. Adjournment

President to adjourn the Board meeting to Tuesday, December 12 at noon to hold a Strategic Planning Workshop in the first floor Sand Canyon Room at 15600 Sand Canyon Avenue, Irvine.

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 will be granted whenever possible and resolved in favor of accessibility.

December 11, 2023

Prepared and

submitted by: L. Bonkowski Approved by: Paul A. Cook

CONSENT CALENDAR

BOARD MEETING MINUTES

SUMMARY:

Provided are the minutes of the November 27, 2023 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE NOVEMBER 27, 2023 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – November 27, 2023 Minutes

No. 5 Minutes.docx

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EXHIBIT "A"

MINUTES OF REGULAR MEETING –NOVEMBER 27, 2023

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order by President McLaughlin at 5:00 p.m. on November 27, 2023 at the District offices, 15600 Sand Canyon Avenue, Irvine.

Directors Present: McLaughlin, Withers and Reinhart.

Director Absent: Swan and LaMar.

Oral and Written Communications: None.

Items too late to be agendized: None.

Also Present: General Manager Cook, Executive Director of Operations Chambers, Executive Director of Water Policy Weghorst, Executive Director of Technical Services Burton, Executive Director of Finance and Administration Adly, Director of Water Quality and Regulatory Compliance Colston, Director of Water Resources Sanchez, Director of Human Resources Mitcham, Director of Safety and Security Choi, Director of Maintenance Manning, Director of Recycling Operations Zepeda, Director of Information Services Kaneshiro, Secretary Bonkowski, Assistant Secretary Swan, General Counsel Collins, and members of the staff and public.

CONSENT CALENDAR

Prior to voting, President McLaughlin said that pertaining to Item No. 7 on the Consent Calendar on tonight's agenda, on November 13, 2023, the Board conducted its annual Performance Evaluation of the General Manager. Ms. McLaughlin said that this evening the Board is considering changes to his compensation based on that performance review. She said that pursuant to Government Code Section 54953(c)(3), prior to taking final action on changes to the General Manager's compensation, she will provide a summary of the recommended action. She said that the recommendation is to: 1) increase the base salary of the General Manager from \$364,751 to \$386,636 per year (a 6.0% increase), effective October 1, 2023; 2) increase the General Manager's automobile allowance from \$10,500 to \$11,000 per year (a 4.76% increase), effective October 1, 2023; and 3) provide a one-time performance award for the General Manager in the amount of \$35,000 as a taxable lump sum cash payment. She said that all other aspects of the General Manager's compensation remain unchanged.

Under Item No. 8, General Manager Cook corrected an administrative error in one of the titles to be eliminated, noting that the title is Construction Inspection Manager versus Construction Services Manager.

On <u>MOTION</u> by Reinhart, seconded by Withers, and unanimously carried, CONSENT CALENDAR ITEMS 4 THROUGH 8 WERE APPROVED AS FOLLOWS:

4. BOARD MEETING MINUTES

Recommendation: That the minutes of the November 13, 2023 Regular Board meeting be approved as presented.

CONSENT CALENDAR (CONTINUED)

5. OCTOBER 2023 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 October 2023 summary of payroll ACH payments in the total amount of \$2,475,208, and approve the October 2023 accounts payable disbursement summary of warrants 438689 through 439245, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the total amount of \$31,140,907.

6. REIMBURSEMENT AGREEMENT BETWEEN IRWD AND THE CITY OF IRVINE FOR THE IRVINE CENTER DRIVE STREET REHABILITATION PROJECT

Recommendation: That the Board authorize the General Manager to execute the Reimbursement Agreement between IRWD and the City of Irvine for Adjustment of Street Utilities to Grade for the Irvine Center Drive Street Rehabilitation Project, subject to non-substantive changes.

7. GENERAL MANAGER COMPENSATION CHANGES

Recommendation: That the Board approve an increase to the annual salary of the General Manager to the amount of \$386,636, an increase to the General Manager's automobile allowance to \$11,000 per year, and a one-time performance award in the amount of \$35,000, all effective October 1, 2023.

8. <u>ADOPTION OF REVISED IRWD SCHEDULE OF POSITIONS AND</u> SALARY RATE RANGES FOR FISCAL YEAR 2023-24

Recommendation: That the Board adopt the following resolution by title superseding Resolution No. 2023-10 and adopt a Revised Schedule of Positions and Salary Rate Ranges.

RESOLUTION NO. 2023 - 16

RESOLUTION OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT SUPERSEDING RESOLUTION NO. 2023-10 AND ADOPTING A REVISED SCHEDULE OF POSITIONS AND SALARY RATE RANGES FOR THE GENERAL UNIT, NON-EXEMPT SUPERVISOR UNIT, AND FOR MANAGERS, EXEMPT SUPERVISORS, CONFIDENTIAL AND EXEMPT EMPLOYEES

ACTION CALENDAR

9. REVISED IRWD POLICY PRINCIPLES REGARDING METROPOLITAN WATER DISTRICT'S INTEGRATED WATER RESOURCES PLAN AND LOCAL RESOURCES PROGRAM

Executive Director of Water Policy Weghorst reported that the Metropolitan Water District is updating its Integrated Water Resources Plan (IRP) which will identify new regional targets for local water resource development. Mr. Weghorst said that these new targets will affect updating and implementing Metropolitan's Local Resources Program which provides incentives to water agencies to develop water recycling, groundwater recovery, and seawater desalination projects. He said that on May 9, 2022, the Board adopted an update to this policy paper to help guide IRWD's advocacy efforts related to ongoing policy discussions on Metropolitan's IRP and Local Resource Program. To ensure that IRWD's policy positions remain up to date for its continued advocacy efforts, this policy position paper has again been revised. He then reviewed the revised IRP and Local Resources Program policy principles. Director Reinhart asked that items 8 and 11 of the IRP be slightly modified for clarity and provided suggested language. On MOTION by Reinhart, seconded by Withers and seconded and unanimously carried, THE BOARD ADOPTED THE REVISED IRWD POLICY PRINCIPLES REGARDING METROPOLITAN WATER DISTRICT'S INTEGRATED WATER RESOURCES PLAN AND LOCAL RESOURCES PROGRAM AS MODIFIED.

10. <u>DUDLEY RIDGE WATER DISTRICT WATER SUPPLY CONTRACT</u>

IRWD receives State Water Project (SWP) water supplies through its ownership of Jackson Ranch, located within Dudley Ridge Water District. To help streamline administrative and billing processes starting in 2024, Dudley Ridge is requesting that all landowners within its service area execute a Water Supply Contract. Staff and IRWD's special legal counsel from Kronick, Moskovitz, Tiedemann & Girard have reviewed the proposed contract and have determined that IRWD's rights to and use of SWP water will not be affected by the execution of the proposed contract. On MOTION by Reinhart, seconded by Withers and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE THE LANDOWNER'S CONTRACT WITH DUDLEY RIDGE WATER DISTRICT FOR A WATER SUPPLY.

OTHER BUSINESS

11. General Manager's Report.

General Manager Cook reported that the District received awards from the Asian Business Association for "2023 Communication Engagement" as well as the Filipino American Chamber of Commerce for the "2023 Elevate Award". He then presented to the Board several Certificates of Recognition received from various entities.

Mr. Cook said that the OCWD's Board of Director Kelly Rowe unexpectedly passed away last week and asked that the Board meeting be adjourned in his memory.

12. Community Updates. None.

OTHER BUSINESS (CONTINUED)

13. Directors' Comments and Meeting Reports

Pursuant to AB 1234 and Government Code Section 53232.3(d), written reports of the meetings that Board members attended on behalf of IRWD since the last Board Meeting were provided at the meeting. Amendments to the written reports were provided orally, and together the reported meetings were as follows:

Director Withers reported on his attendance at an OCWD monthly industry insight meeting.

Director Reinhart reported that he attended a MWDOC Board meeting and a south Orange County Agencies' group meeting.

Director McLaughlin said she had no meetings to report this evening.

14. CLOSED SESSION

Legal Counsel Collins said that the following Closed Session would be held this evening:

CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION Pursuant to (Gov. Code § 54956.9(d)(2) – Significant exposure to litigation: Two cases

- A. BKK Working Group; and
- B. Bowman Design Group

CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION Pursuant to Gov. Code 54956.9(d)(1) – Existing Litigation: One case

C. AFFF Multi-District Litigation No. 2873

15. Reconvene and Open Session

Following the Closed Session, the meeting was reconvened with Directors Withers, Reinhart, and McLaughlin present. No action was reported.

16. Adjournment

There being no further business, Director McLaughlin adjourned the meeting in memory of Mr. Kelly Rowe.

APPROVED and SIGNED this 11th day of	December 2023.
	President, IRVINE RANCH WATER DISTRICT
	Connetons IDVINE DANCH WATER DISTRICT
	Secretary, IRVINE RANCH WATER DISTRICT
APPROVED AS TO FORM:	
Claire Hervey Collins, General Counsel Hanson Bridgett LLP	
Tuilson Drugett LLI	

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December 11, 2023 Prepared and

submitted by: C. Compton

Approved by: Paul A. Cook

CONSENT CALENDAR

2023-2024 LEGISLATIVE AND REGULATORY UPDATE

SUMMARY:

This report provides an update on the 2023-2024 legislative session, regulatory issues, and IRWD priorities. As legislation and regulations develop, staff provides updates and recommendations to the Water Resources Policy and Communications Committee and the Board, as appropriate.

In preparing for the 2024 legislative year, staff has developed several concepts for sponsored legislation on issues of interest to the District. Staff recommends that the Board authorize the District to sponsor legislation in 2024 to establish state policy to encourage and incentivize, but not mandate, the development of emergency water supplies, and to support the use of emergency supplies during times of water shortage, and to sponsor legislation in 2024 to clarify existing law that the cost associated with peak water usage should be reasonably allocated to the parcels served by a water service provider and that those costs could be allocated based on meter size, peaking factors, or any other method consistent with Proposition 218.

BACKGROUND:

The California State Assembly and State Senate will return from their Interim Recesses on January 3, 2024, and begin the second year of the two-year session. The 2023 Legislative Matrix, which is typically attached to this report, is not included this month since no legislative actions have taken place since the Governor's final action on 2023 bills in October. Links are provided to the bills and regulations discussed below, within each discussion, unless a separate exhibit is noted.

2024 State Legislative Activities:

As is typical at the beginning of each legislative year, staff expects that the California Legislature and State regulatory agencies will take up a number of issues of interest to the water and wastewater communities in 2024. Staff will provided the Water Resources and Policy and Communications Committee (Committee) with an update on the conversations taking place related to these issues. Among the state legislative issues staff discussed:

- Climate resilience bond discussions:
- Surplus Land Act changes;
- SB 366 (Caballero, D-Salinas) The California Water Plan Long-Term Supply Targets;
- Low-income water rate assistance; and
- Other legislative topics of interest to IRWD.

6 No. 6 Legislative Update.docx

Consent Calendar: 2023-2024 Legislative and Regulatory Update

December 11, 2023

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Possible Sponsored Legislation:

Staff described two concepts for legislation with the Committee that could be sought by the District in 2024. The first is a proposal that would establish state policy to encourage and incentivize, but not mandate, the development of emergency water supplies, and to support the use of emergency supplies during times of water shortage. The second is a proposal that would clarify existing law that the cost associated with peak water usage should be reasonably allocated to the parcels served by a water service provider in a manner that reasonably reflects the water service provider's cost of serving higher-consumptive water parcels and low-consumptive water parcels, and that those costs could be proportionally allocated based on meter size, peaking factors, or other methods consistent with Proposition 218.

Staff recommends that the Board authorize the District to sponsor these two proposals in 2024.

Other State and Regional Regulatory Updates:

The following is a list of state and regional regulations and agency reports staff is monitoring, tracking, or planning to engage in over the next three to 12 months. As the next drafts of the regulations or reports are released for public review and comment, staff will engage, as appropriate. Staff also provided an oral update to the Committee on new developments related to these regulations and other regulations of interest to the District.

The pending regulations and reports actively being tracked include:

- California Endangered Species Act Listing for the Southern California Steelhead;
- California Natural Resources Agency (CNRA) 30 x 30 California Implementation;
- CNRA's <u>Water Resilience Portfolio Implementation and Resiliency 2.0</u> Implementation;
- DWR's 2023 California Water Plan Update;
- DWR Surface water and groundwater interconnection guidance;
- State Board's development of a "Cross Connection Policy Handbook";
- State Board's <u>Direct Potable Reuse Regulations</u>;
- State Board's implementation of the Lead and Copper Rule;
- State Board's "Making Water Conservation a California Way of Life" implementation;
- State Board's <u>Safe and Affordable Funding for Equity and Resilience (SAFER) Drinking Water Program;</u>
- State Board's Development of Maximum Contaminant Levels for PFAS;
- South Coast AQMD's Cumulative Impacts from Air Toxics for CEQA Projects;
- South Coast AQMD's Tier 4 Emergency Generator Testing Policy; and
- South Coast AQMD's PAR 1146.2 Control of NOx from Large Water Heaters, Small Boilers and Process Heaters.

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2023 Federal Legislative Update:

Kern Fan Groundwater Storage Project Outreach:

IRWD's federal advocacy priority in 2023 focuses on seeking federal funding for the Kern Fan Groundwater Storage Project and advocating for an increased funding authorization for the federal Water Storage Program. Staff provided an update on those efforts to Committee.

2023 Federal Regulatory Update:

Lead and Copper Rule Improvements:

In January 2021, the United States Environmental Protection Agency (U.S. EPA) finalized the Lead and Copper Rule Revisions (LCRR), a rule to modify the Federal Lead and Copper Rule. After finalizing the LCRR, U.S. EPA announced that it would move forward with a subsequent rulemaking process to improve the LCRR. This subsequent rulemaking is known at the Lead and Copper Rule Improvements (LCRI). On November 30, 2023, the U.S. EPA released the proposed LCRI for public review and comment. While staff is undertaking a thorough review of the proposed rule, U.S. EPA summarized the proposed LCRI, as:

- Achieving 100% Lead Pipe Replacement within 10 years. When lead service lines are present, they represent the greatest source of lead exposure in drinking water. The proposed LCRI would require the vast majority of water systems to replace lead services lines within 10 years.
- Locating Legacy Lead Pipes. Knowing where lead pipes are is critical to replacing them efficiently and equitably. Water systems are currently required to provide an initial inventory of their lead service lines by October 16, 2024. Under the proposed LCRI, all water systems would be required to regularly update their inventories, create a publicly available service line replacement plan, and identify the materials of all service lines of unknown material.
- Improving Tap Sampling. The proposed LCRI would make key changes to the protocol that water systems must use for tap sampling informed by best practices already being deployed at the local and state level, like in Michigan. Water systems would be required to collect first liter and fifth liter samples at sites with lead service lines and use the higher of the two values when determining compliance with the rule.
- Lowering the Lead Action Level. EPA is proposing to lower the lead action level from 15 μg/L to 10 μg/L. When a water system's lead sampling exceeds the action level, the system would be required to inform the public and take action to reduce lead exposure while concurrently working to replace all lead pipes. For example, the system would install or adjust corrosion control treatment to reduce lead leaching into drinking water.
- Strengthening Protections to Reduce Exposure. Water systems with multiple lead action level exceedances would be required to conduct additional outreach to consumers and make filters certified to reduce lead available to all consumers. The filters must be certified to reduce lead.

The U.S. EPA intends to finalize the LCRI prior to October 16, 2024.

Consent Calendar: 2023-2024 Legislative and Regulatory Update

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Other 2023 Federal Regulatory Updates:

The following is a list of federal regulations and agency reports staff is monitoring, tracking, or planning to engage in over the next three to 12 months. As the next drafts of the regulations or reports are released for public review and comment, staff will engage, as appropriate. Staff also provided an oral update to the Committee on new developments related to these regulations and other regulations of interest to the District.

The pending regulations and reports actively being tracked include:

- U.S. EPA's Proposed Designation of PFOA and PFOS as CERCLA Hazardous Substances;
- U.S. EPA's Potential Future Hazardous Substances Designations of PFAS Under CERCLA;
- U.S. EPA's Proposed PFAS National Primary Drinking Water Regulation;
- U.S. EPA's Consumer Confidence Report Rule Revisions; and
- Bureau of Reclamation's Post-2026 Colorado River Reservoir Operational Guidelines and Strategies for Lake Powell and Lake Mead.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources and Policy Committee on December 7, 2023.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE DISTRICT TO SPONSOR LEGISLATION IN 2024 TO ESTABLISH STATE POLICY TO ENCOURAGE AND INCENTIVIZE, BUT NOT MANDATE, THE DEVELOPMENT OF EMERGENCY WATER SUPPLIES, AND TO SUPPORT THE USE OF EMERGENCY SUPPLIES DURING TIMES OF WATER SHORTAGE, AND TO SPONSOR LEGISLATION IN 2024 TO CLARIFY EXISTING LAW THAT THE COST ASSOCIATED WITH PEAK WATER USAGE SHOULD BE REASONABLY ALLOCATED TO THE PARCELS SERVED BY A WATER SERVICE PROVIDER AND THAT THOSE COSTS COULD BE ALLOCATED BASED ON METER SIZE, PEAKING FACTORS, OR ANY OTHER METHOD CONSISTENT WITH PROPOSITION 218.

LIST OF EXHIBITS:

None.

December 11, 2023

Prepared by: O. Mendoza / J. Davis Submitted by: K. Morris / N. Adly Approved by: Paul A. Cook

CONSENT CALENDAR

NOVEMBER 2023 TREASURY REPORT

SUMMARY:

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

- A. The November 2023 Investment Summary Report. This Investment Summary Report conforms with the 2023 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 November 30, 2023 as outlined in Exhibit "B";
- C. The Monthly Interest Rate Swap Summary as of November 30, 2023 as outlined in Exhibit "C";
- D. The November 30, 2023 Disbursement Summary of warrants 439246 through 439829, Workers' Compensation distributions, ACH payments, virtual card payments, wire transfers, payroll withholding distributions, and voided checks in the total amount of \$19,169,707 as outlined in Exhibit "D";
- E. The Summary of Payroll ACH payments in the total amount of \$2,643,092 as outlined in Exhibit "E"; and
- F. The Disclosure Report of Reimbursements to Board members and staff for November 2023, detailing payments or reimbursements for individual charges of \$100 or more per transaction as outlined in Exhibit "F".

FISCAL IMPACTS:

As of November 30, 2023, the book value of the investment portfolio was \$364,614,469, with a 4.14% rate of return and a market value of \$362,688,319. Based on IRWD's September 30, 2023, quarterly real estate annualized investment rate of return of 14.70%, the weighted average return for the fixed income and real estate investments was 6.54%.

As of November 30, 2023, the outstanding principal amount of fixed and variable rate debt was \$594,490,000. The monthly weighted average all-in variable rate was 2.65%. Including IRWD's weighted average fixed rate bond issues of 3.72% 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 3.36%.

Payroll ACH payments totaled \$2,643,092 and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, water purchases, and voided checks for November totaled \$19,169,707.

Consent Calendar: November 2023 Treasury Report

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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 NOVEMBER 2023 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,643,092, AND APPROVE THE NOVEMBER 2023 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 439246 THROUGH 439829, WORKERS' COMPENSATION DISTRIBUTIONS, ACH PAYMENTS, VIRTUAL CARD PAYMENTS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS, AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$19,169,707.

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

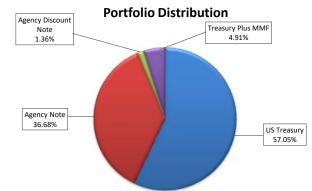
Exhibit "E" – Monthly Payroll ACH Summary

Exhibit "F" - Disclosure of Reimbursements to Board Members and Staff

Exhibit "A"

Irvine Ranch Water District Investment Portfolio Summary November 2023





Investment Summary

Type	PAR	Book Value	Market Value
US Treasury	210,000,000	207,821,285	207,015,550
Agency Note	135,000,000	133,749,228	132,632,050
Treasury Plus MMF	18,070,469	18,070,469	18,070,469
Agency Discount	5,000,000	4,973,488	4,970,250
Grand Total	368,070,469	364,614,469	362,688,319

Weighted Average Return Including Real Estate Portfolio



Maturity Distribution



Top Issuers

Issuer	PAR	% Portfolio
US Treasury	210,000,000	57.05%
Fed Home Loan Bank	65,000,000	17.66%
Fed Farm Credit Bank	55,000,000	14.94%
Wells Fargo / Allspring	18,070,469	4.91%
Fed Home Loan Mortgage Corp	15,000,000	4.08%
Fed Natl Mortgage Assoc	5,000,000	1.36%
Grand Total	368,070,469	100.00%

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT

11/30/23

						11/30/23							
	a "				D. H. FEGGER, 4TO VIII	2.100,000,000,000,000	B. B			ontoniii	a.nn	(l)	1 n n n n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Call	Initial	Maturity		INVESTMENT	INSTITUTION /	PAR	COUPON		ORIGINAL	CARRY VALUE	MARKET VALUE ⁽¹⁾	UNREALIZED ⁽²⁾
SETTLMT	Schedule	Call	Date	Rating	TYPE	ISSUER	Amount	DISCOUNT	YIELD	COST		11/30/2023	GAIN/(LOSS)
04/06/23			12/01/23		LAIF	State of California Tsy.	\$0.00		3.840%	\$0.00	\$0.00	0.00	0.00
11/30/23			12/01/23		Treasury Plus MMF	Wells Fargo / Allspring	18,070,468.52		5.200%	18,070,468.52	18,070,468.52	18,070,468.52	0.00
00/21/22	37.4	37.4	10/00/22	4 (4 4 ; ATD	EIII D. M.	E III I D I	5 000 000	2.2750/	2.57(0/	4.007.445.00	4 000 010 50	4 007 750 00	(2.060.50)
08/31/22	NA	NA	12/08/23	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	3.375%	3.576%	4,987,445.00	4,999,810.59	4,997,750.00	(2,060.59)
04/14/22	NA	NA	12/15/23	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	0.125%	2.213%	4,829,687.50	4,996,091.19	4,990,000.00	(6,091.19)
01/17/23	NA	NA	01/12/24	NR	FHLB - Discount Note	Fed Home Loan Bank	5,000,000	4.545%	4.771%	4,772,750.00	4,973,487.50	4,970,250.00	(3,237.50)
11/14/23	NA	NA	01/30/24	Aaa/NR/AAA	Treasury - Bill	US Treasury	10,000,000	5.231% 0.875%	5.378%	9,888,116.86	9,912,818.33	9,912,300.00	(518.33)
03/22/22	NA	NA	01/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000		2.013%	4,896,484.38	4,990,714.04	4,962,800.00	(27,914.04)
08/31/22	NA	NA	01/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.500%	3.445%	4,935,156.25	4,992,363.96	4,975,800.00	(16,563.96)
12/16/22	NA	NA	02/15/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	2.750%	4.531%	4,899,804.69	4,982,124.78	4,973,450.00	(8,674.78)
08/17/23	NA	NA	02/15/24	Aaa/NR/AAA	Treasury - Bill	US Treasury	10,000,000	5.260%	5.494%	9,734,077.78	9,888,955.56	9,889,500.00	544.44
03/22/22	NA	NA	02/29/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	1.500%	2.020%	4,950,781.25	4,993,752.20	4,952,150.00	(41,602.20)
03/10/22	NA	NA	03/08/24	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	1.875%	1.680%	10,038,080.00	10,005,119.12	9,904,000.00	(101,119.12)
04/21/22	NA	NA	04/30/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	2.000%	2.600%	9,882,421.88	9,976,007.71	9,865,600.00	(110,407.71)
05/31/22	NA	NA	05/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	2.500%	2.560%	9,988,281.25	9,997,082.34	9,859,800.00	(137,282.34)
08/17/22	NA	NA	06/14/24	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	3.125%	3.315%	4,983,200.00	4,995,063.27	4,941,800.00	(53,263.27)
12/16/22	NA	NA	06/14/24	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	4.875%	4.611%	5,018,300.00	5,006,569.23	4,987,450.00	(19,119.23)
12/01/22	NA	NA	07/02/24	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.750%	4.450%	4,795,376.45	4,924,370.57	4,897,800.00	(26,570.57)
08/17/22	NA	NA	07/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	5,000,000	3.000%	3.249%	4,976,562.50	4,992,023.37	4,925,200.00	(66,823.37)
11/30/23	NA	NA	07/31/24	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	1.750%	5.288%	9,770,312.50	9,771,253.84	9,768,800.00	(2,453.84)
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	4,995,572.25	4,933,600.00	(61,972.25)
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	4,998,115.44	4,952,950.00	(45,165.44)
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	4,996,903.56	4,999,250.00	2,346.44
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	5,011,701.61	4,922,350.00	(89,351.61)
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	4,959,373.82	4,922,350.00	(37,023.82)
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	4,996,740.03	4,956,450.00	(40,290.03)
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	9,986,738.44	9,927,300.00	(59,438.44)
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	4,898,652.19	4,861,900.00	(36,752.19)
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	4,844,678.35	4,796,400.00	(48,278.35)
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	4,886,523.44	4,847,850.00	(38,673.44)
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	4,885,937.50	4,847,850.00	(38,087.50)
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	4,822,542.98	4,783,800.00	(38,742.98)
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	4,892,968.75	4,853,150.00	(39,818.75)
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	9,709,274.61	9,706,300.00	(2,974.61)
02/13/23	NA	NA	02/13/25	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	5.020%	5.020%	5,000,000.00	5,000,000.00	4,985,400.00	(14,600.00)
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	4,843,050.61	4,809,000.00	(34,050.61)
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	4,907,650.03	4,860,950.00	(46,700.03)
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	4,983,499.28	4,949,350.00	(34,149.28)
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	4,843,284.74	4,797,250.00	(46,034.74)
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	19,949,832.67	19,707,800.00	(242,032.67)
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	5,002,666.49	4,953,600.00	(49,066.49)
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	4,906,437.92	4,857,500.00	(48,937.92)
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	4,903,930.92	4,846,300.00	(57,630.92)
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	4,993,498.36	4,948,150.00	(45,348.36)
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	4,992,639.65	4,948,150.00	(44,489.65)
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	9,707,212.89	9,711,700.00	4,487.11

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT

11/30/23

						11/30/23							
												(1)	(2)
	Call	Initial	Maturity		INVESTMENT	INSTITUTION /	PAR	COUPON		ORIGINAL	CARRY VALUE	MARKET VALUE ⁽¹⁾	UNREALIZED ⁽²⁾
SETTLMT	Schedule	Call	Date	Rating	TYPE	ISSUER	Amount	DISCOUNT		COST		11/30/2023	GAIN/(LOSS)
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	9,898,800.00	(101,200.00)
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	9,359,967.04	9,235,300.00	(124,667.04)
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	4,995,669.99	4,954,100.00	(41,569.99)
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	4,946,712.74	4,907,350.00	(39,362.74)
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	14,844,377.18	14,849,400.00	5,022.82
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	9,943,083.71	10,032,800.00	89,716.29
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	9,957,767.89	10,035,200.00	77,432.11
11/28/23	NA	NA	10/31/28	Aaa/AA+/AA+	Treasury - Note	US Treasury	10,000,000	4.875%	4.464%	10,217,187.50	10,179,387.85	10,243,800.00	64,412.15
SUB-TOTAL							\$368,070,469	<u>.</u>		\$361,914,003.59	\$364,614,469.05	\$362,688,318.52	(\$1,926,150.53)
TOTAL INVE	ESTMENTS						\$368,070,469			\$361,914,003.59	\$364,614,469.05	\$362,688,318.52	(\$1,926,150.53)
							,,	•			, , , , , , , , , , , , , , , , , , , ,	,,,.	(1) (1)
					Petty Cash	D 1 64 :	ECD	1.770/		3,400.00			
					Ck Balance	Bank of America	ECR			3,845,662.54	E)		
					Ck Balance	Wells Fargo	ECR	2.00%		0.00	3)		
										\$365,763,066.13			
	alue is as of the most							Outstanding					\$214,800,000
		using Bank o	f New York ("	Trading Prices"), Bloom	berg					Rate Debt (Less \$60 mil	ion fixed-payer swap	s)	\$154,800,000
and/or broker dea	1 0							Investment B					\$365,763,066
(2) Gain (loss) calc	ulated against carry	value using the	e trading value	provided by Bank of No	w York/or Brokers			Investment to	Variable Ra	ate Debt Ratio:			236%
(3) Real estate rate	of return is based on	most recent q	uarter end retu	ırn.				Portfolio - A	verage Numb	er of Days To Maturity			420
	pdated to reflect capi mprovements during		rovements add	ed for Fiscal Year 2023.									
(5) Cash balance in	this account are fun	ds that are per	nding purchase	into the current money	narket fund.						Investment	Real Estate(3)(4)	Weighted Avg.
*S - Step up			8 Г	,							Portfolio	Portfolio	Return
This Investment S	Summary Report is in	conformity w	rith the 2023 Ir	nvestment Policy						November	4.14%	14.70%	6.54%
and provides suffi	icient liquidity to me	et the next six	months estima	ated expenditures.						October	4.07%	14.70%	6.57%
										Change	0.07%	0.00%	-0.03%

IRVINE RANCH WATER DISTRICT SUMMARY OF MATURITIES

11/30/23

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Municipal Bonds	US Treasury	Investment Sweep
11/23	18,070,469	4.91%						18,070,469
12/23	10,000,000	2.72%		5,000,000			5,000,000	
1/24	25,000,000	6.79%			5,000,000		20,000,000	
2/24	20,000,000	5.43%					20,000,000	
3/24	10,000,000	2.72%		10,000,000				
4/24	10,000,000	2.72%					10,000,000	
5/24	10,000,000	2.72%					10,000,000	
6/24	10,000,000	2.72%		10,000,000				
7/24	20,000,000	5.43%		5,000,000			15,000,000	
8/24	15,000,000	4.08%		15,000,000				
9/24	15,000,000	4.08%		15,000,000				
10/24	10,000,000	2.72%		10,000,000				
SUB-TOTAL	\$173,070,469	47.02%		\$70,000,000	\$5,000,000		\$80,000,000	\$18,070,469
13 Months - 3 YEARS								
11/01/2024 - 01/31/2025	\$40,000,000	10.87%		5,000,000			35,000,000	
02/01/2025 - 04/30/2025	\$50,000,000	13.58%		20,000,000			30,000,000	
5/01/2025 - 07/31/2025	\$40,000,000	10.87%		25,000,000			15,000,000	
08/01/2025 - 10/31/2025	\$15,000,000	4.08%		10,000,000			5,000,000	
11/01/2025 - 01/31/2026	\$5,000,000	1.36%		5,000,000				
02/01/2026 - 04/30/2026								
5/01/2026 - 07/31/2026	\$15,000,000	4.08%					15,000,000	
08/01/2026 - 10/31/2026	\$20,000,000	5.43%					20,000,000	
11/01/2026 +	\$10,000,000	2.72%					10,000,000	
SUB-TOTAL	\$195,000,000	52.98%		\$65,000,000			\$130,000,000	
1						1		

% OF PORTFOLIO 36.68% 1.36% 57.05% 4.91%

\$135,000,000

\$5,000,000

\$210,000,000

\$18,070,469

TOTALS

\$368,070,469

100.00%

Irvine Ranch Water District Summary of Real Estate - Income Producing Investments 9/30/2023

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	 ORIGINAL COST	MA	RKET VALUE 6/30/2023	ANNUALIZED RATE OF RETURN QUARTER ENDED 9/30/2023
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 45,457,369	\$	178,606,250	23.77%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	\$	36,246,127	8.50%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,568,747	\$	12,484,800	9.78%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,983,395	\$	12,068,640	8.55%
Sand Canyon Professional Center - Medical Office	Jul-12	Medical Office	Fee Simple	\$ 8,715,929	\$	12,380,760	7.85%
Sand Canyon Professional Center - General Office ⁽¹⁾	Sep-20	Office Building	Fee Simple	\$ 31,404,103	\$	40,559,820	7.29%
Total - Income Properties				\$ 106,129,543	\$	292,346,397	14.70%

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

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT INVESTMENT ACTIVITY⁽¹⁾

Nov-23

MATURITIES/SALES/CALLS

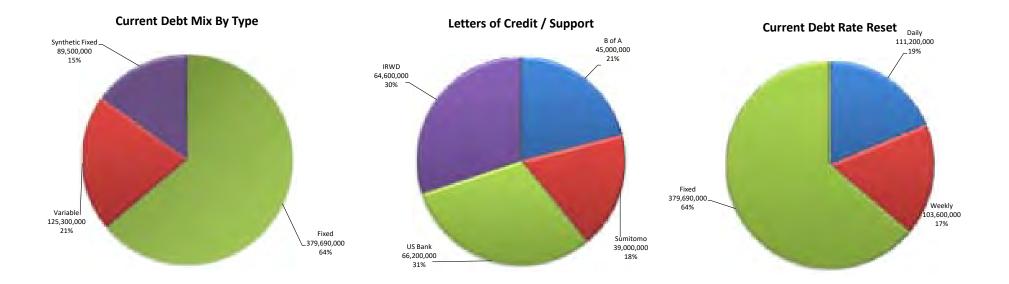
PURCHASES

			Settlement				YIELD TO
SECURITY TYPE	PAR	YIELD	Date	Maturity Date	SECURITY TYPE	PAR	MATURITY
Treasury - Bill	\$10,000,000	5.31%	11/2/2023	11/7/2023	Treasury - Bill	\$10,000,000	5.31%
Treasury - Note	\$5,000,000	2.21%	11/3/2023	10/15/2026	Treasury - Note	\$10,000,000	4.78%
Treasury - Note	\$5,000,000	2.46%	11/14/2023	1/30/2024	Treasury - Bill	\$10,000,000	5.38%
Treasury - Note	\$10,000,000	5.29%	11/28/2023	10/31/2028	Treasury - Note	\$10,000,000	4.46%
			11/30/2023	7/31/2024	Treasury - Note	\$10,000,000	5.29%
			11/30/2023	1/31/2025	Treasury - Note	\$10,000,000	5.10%
	Treasury - Bill Treasury - Note Treasury - Note Treasury - Note	Treasury - Bill \$10,000,000 Treasury - Note \$5,000,000 Treasury - Note \$5,000,000 Treasury - Note \$10,000,000	Treasury - Bill \$10,000,000 5.31% Treasury - Note \$5,000,000 2.21% Treasury - Note \$5,000,000 2.46% Treasury - Note \$10,000,000 5.29%	SECURITY TYPE PAR YIELD Date Treasury - Bill \$10,000,000 5.31% 11/2/2023 Treasury - Note \$5,000,000 2.21% 11/3/2023 Treasury - Note \$5,000,000 2.46% 11/14/2023 Treasury - Note \$10,000,000 5.29% 11/28/2023 11/30/2023 11/30/2023	SECURITY TYPE PAR YIELD Date Maturity Date Treasury - Bill \$10,000,000 5.31% 11/2/2023 11/7/2023 Treasury - Note \$5,000,000 2.21% 11/3/2023 10/15/2026 Treasury - Note \$5,000,000 2.46% 11/14/2023 1/30/2024 Treasury - Note \$10,000,000 5.29% 11/28/2023 10/31/2028 11/30/2023 7/31/2024 11/30/2023 1/31/2025	SECURITY TYPE PAR YIELD Date Maturity Date SECURITY TYPE Treasury - Bill \$10,000,000 5.31% 11/2/2023 11/7/2023 Treasury - Bill Treasury - Note \$5,000,000 2.21% 11/3/2023 10/15/2026 Treasury - Note Treasury - Note \$5,000,000 2.46% 11/14/2023 1/30/2024 Treasury - Bill Treasury - Note \$10,000,000 5.29% 11/28/2023 10/31/2028 Treasury - Note 11/30/2023 7/31/2024 Treasury - Note 11/30/2023 1/31/2025 Treasury - Note	SECURITY TYPE PAR YIELD Date Maturity Date SECURITY TYPE PAR Treasury - Bill \$10,000,000 5.31% 11/2/2023 11/7/2023 Treasury - Bill \$10,000,000 Treasury - Note \$5,000,000 2.21% 11/3/2023 10/15/2026 Treasury - Note \$10,000,000 Treasury - Note \$5,000,000 2.46% 11/14/2023 1/30/2024 Treasury - Bill \$10,000,000 Treasury - Note \$10,000,000 5.29% 11/28/2023 10/31/2028 Treasury - Note \$10,000,000 11/30/2023 7/31/2024 Treasury - Note \$10,000,000

⁽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 November 2023



Outstanding Par by Series Remaining Letter of Principal **Maturity Date** Percent Credit/Support Rmkt Agent Mode Reset Series **Issue Date** Series 1993 05/19/93 04/01/33 \$21,200,000 3.57% **US Bank** BAML Variable Daily Series 2008-A Refunding 04/24/08 07/01/35 \$39,000,000 6.56% Sumitomo BAML Variable Weekly Series 2011-A-1 Refunding 04/15/11 10/01/37 6.52% IRWD Goldman Weekly \$38,760,000 Variable Series 2011-A-2 Refunding 04/15/11 10/01/37 \$25,840,000 4.35% **IRWD** Goldman Weekly Variable Series 2009 - A 06/04/09 10/01/41 \$45,000,000 7.57% **US Bank** US Bank Variable Daily Series 2009 - B 06/04/09 10/01/41 \$45,000,000 7.57% B of A Goldman Variable Daily 2016 COPS 09/01/16 03/01/46 \$105,710,000 17.78% N/A N/A Fixed Fixed 2010 Build America Taxable Bond 12/16/10 05/01/40 \$175,000,000 29.44% N/A N/A Fixed Fixed Series 2016 10/12/16 02/01/46 \$98,980,000 16.65% N/A N/A Fixed Fixed Total \$594,490,000 100.00%

IRVINE RANCH WATER DISTRICT

SUMMARY OF FIXED & VARIABLE RATE DEBT

November-23

ITNDaily

Weekly																				
	GE	NERAL BO	OND INFORMA	TION						LETTER OF CRE	DIT INFO	RMATION					TF	RUSTEE INFOR	MATION	
VARIABLE RATE ISSUES	Issue Date	Maturity Date	Principal Payment Date	Payment Date	Original Par Amount	Remaining Principal	Letter of Credit	Reimbursment Agreement Date		MOODYS	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	\$21,200,000	US BANK	05/07/15	05/01/25	Aa3/VMIG1	AA-/A-1+	N/R	\$21,485,764	0.3000%	\$64,457	BAML	DAILY	0.10%	\$21,200	BANK OF NY
SERIES 2008-A Refunding	04/24/08	07/01/35	Jul 1	5th Bus. Day	\$60,215,000	\$39,000,000	SUMITOMO	04/01/11	05/28/25	A1/P-1	A/A-1	A/F1	\$39,576,986	0.3150%	\$124,668	BAML	WED	0.07%	\$27,300	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	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$48,450	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	N/A	N/A	N/A	Aa1/VMIG1	A-1+	AAA/F1+	N/A	N/A	N/A	Goldman	WED	0.13%	\$32,300	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/VMIG 1	AA-/A-1+	AA/F1+	\$45.503.014	0.3000%	\$136.509	US Bank	DAII Y	0.07%	\$31.500	US BANK
SERIES 2009 - B	06/04/09	10/01/41		ŕ	\$75,000,000	\$45,000,000	B of A	04/01/11	04/21/25	Aa2/VMIG 1			\$45,503,014		\$127,408	Goldman		0.10%	\$45,000	US BANK

					\$349,430,000	\$214,800,000	SUB-TOTAL	VARIABLE RATI	E DEBT				\$152,068,778	0.2979%	\$453,042			0.10%	\$205,750	_
														(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	NP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	US BANK
Taxable Bollds	12/10/10	03/01/40	iviay (2020)	iviay/1404	ψ173,000,000	ψ173,000,000	1973	19/75	19/73	Adi	70.00	INIX	19075	18//5	1975	1973	19/73	18/75	19/5	OO DAINIC
2016 COPS	09/01/16	03/01/46	Mar 1	Mar/Sept	\$116,745,000	\$105,710,000	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	\$98.980.000	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 \$379,690,000 SUB-TOTAL FIXED RATE DEBT

\$744,575,000 \$594,490,000 TOTAL- FIXED & VARIABLE RATE DEBT

Remarke	eting Agents			GO VS COP's	
Goldman	109,600,000	51%	GO:	488,780,000	82%
BAML	60,200,000	28%	COPS:	105,710,000	18%
US Bank	45,000,000	21%	Total	594,490,000	
	214,800,000				

LOCI	Banks	Breakdown Between	een Variable & Fixed R	tate Mode
		Daily Issues	111,200,000	19%
SUMITOMO	39,000,000	Weekly Issues	39,000,000	7%
BANK OF AMERICA	45,000,000	ITN Issues	64,600,000	11%
US BANK	66,200,000	Sub-Total	214,800,000	
	150,200,000			
		Fixed Rate Issues	\$379,690,000	64%
		Sub-Total - Fixed	379,690,000	
		TOTAL DEBT		
		FIXED & VAR.	594,490,000	100%

SUMMARY OF DEBT RATES Nov-23

Rmkt Agent Mode Bond Issue	GOLDMAN DAILY 2009 - B	GOLDMAN WEEKLY 2011 A-1	GOLDMAN WEEKLY 2011 A-2	MERRIL DAILY 1993	L LYNCH WEEKLY 2008-A	US BANK DAILY 2009-A
Par Amount	45,000,000	38,760,000	25,840,000	21,200,000	39,000,000	45,000,000
LOC Bank	BOFA	(SIFMA + 5)	(SIFMA + 5)	US BANK	Sumitomo	US BANK
Reset		Wednesday	Wednesday		Wednesday	
44/4/0000	0.050/	4.440/	4.440/	0.400/	0.400/	0.050/
11/1/2023	2.05%	4.14%	4.14%	2.10%	2.48%	2.25%
11/2/2023 11/3/2023	1.35% 1.20%	3.90% 3.90%	3.90% 3.90%	1.72% 1.50%	2.21% 2.21%	2.00% 1.50%
11/4/2023	1.20%	3.90%	3.90%	1.50%	2.21%	1.50%
11/5/2023	1.20%	3.90%	3.90%	1.50%	2.21%	1.50%
11/6/2023	1.00%	3.90%	3.90%	1.10%	2.21%	1.30%
11/7/2023	0.80%	3.90%	3.90%	0.85%	2.21%	1.00%
11/8/2023	0.70%	3.90%	3.90%	0.72%	2.21%	0.85%
11/9/2023	0.70%	3.18%	3.18%	0.75%	1.46%	0.80%
11/10/2023	1.30%	3.18%	3.18%	1.25%	1.46%	1.20%
11/11/2023	1.30%	3.18%	3.18%	1.25%	1.46%	1.20%
11/12/2023	1.30%	3.18%	3.18%	1.25%	1.46%	1.20%
11/13/2023	2.20%	3.18%	3.18%	1.90%	1.46%	1.55%
11/14/2023	2.20%	3.18%	3.18%	2.10%	1.46%	1.95%
11/15/2023	2.10%	3.18%	3.18%	2.15%	1.46%	2.05%
11/16/2023	2.05%	3.86%	3.86%	2.05%	2.19%	2.15%
11/17/2023	2.05%	3.86%	3.86%	2.08%	2.19%	2.10%
11/18/2023	2.05%	3.86%	3.86%	2.08%	2.19%	2.10%
11/19/2023	2.05%	3.86%	3.86%	2.08%	2.19%	2.10%
11/20/2023	1.90%	3.86%	3.86%	2.02%	2.19%	2.10%
11/21/2023	1.85%	3.86%	3.86%	2.12%	2.19%	2.00%
11/22/2023	1.80%	3.86%	3.86%	2.00%	2.19%	2.00%
11/23/2023	1.80%	3.65%	3.65%	2.00%	2.19%	2.00%
11/24/2023	1.80%	3.65%	3.65%	2.05%	2.19%	2.00%
11/25/2023	1.80%	3.65%	3.65%	2.05%	2.19%	2.00%
11/26/2023	1.80%	3.65%	3.65%	2.05%	2.19%	2.00%
11/27/2023	1.80%	3.65%	3.65%	1.95%	2.19%	2.00%
11/28/2023	1.80%	3.65%	3.65%	1.91%	2.19%	1.90%
11/29/2023	1.80%	3.65%	3.65%	2.15%	2.19%	1.90%
11/30/2023	1.90%	3.35%	3.35%	2.40%	1.98%	2.00%
Avg Interest Rates	1.63%	3.65%	3.65%	1.75%	2.03%	1.74%
Rmkt Fee	0.10%	0.13%	0.13%	0.10%	0.07%	0.07%
LOC Fee	0.28%			0.30%	0.32%	0.30%
All-In Rate	2.01%	3.78%	3.78%	2.15%	2.41%	2.11%
Par Amount	8	3,760,000	25,840,000	60,20	00,000	45,000,000

	Percent of	Par	Weighted All-In		Base Rate
Interest Rate Mode	Total Variable Rate Debt	Outstanding	Average Rate		Average
Daily	51.77%	111,200,000	2.08%		1.70%
Weekly	48.23%	103,600,000	3.26%		3.04%
	100.00%	\$214,800,000	2.65%		2.35%
Fixed					
COPS 2016	27.84%	105,710,000	2.90%		
BABS 2010	46.09%	175,000,000	4.44%	(1)	
SERIES 2016	26.07%	98,980,000	3.32%		
	100.00%	\$379,690,000	3.72%		

Note: This page is intentionally left blank.

Exhibit "C"

Irvine Ranch Water District Interest Rate Swap Summary November 2023

	Prior Mo.	Current Mo.	12-Mo Avg
LIBOR Flbk Avg %	5.45%	5.45%	5.04%

		Current	Fiscal Year A	Active Swaps						Cash F	low	(Since 3/07)	Mark to	Market
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Туре	Base Index	Fixed Rate	Pric	or Month	Current Month	Fiscal YTD	Cumulative Net Accrual	Current Mark to Market	Notional Difference
F	ixed Payer S	Swaps - By E	ffective Date		1									
3/10/2007	3/10/2029	5.3	ML	30,000,000	FXP	LIBOR	5.687%		(6,076)	(6,115)	(32,627)	(21,955,597)	27,759,741	(2,240,259)
3/10/2007	3/10/2029	5.3	CG	30,000,000	FXP	LIBOR	5.687%		(6,076)	(6,115)	(32,420)	(21,955,390)	27,763,680	(2,236,320)
Totals/Weighted Av	gs	5.3	-	\$ 60,000,000	-		5.687%	\$	(12,152) \$	(12,230)	\$ (65,047)	\$ (43,910,986)	\$ 55,523,421	\$ (4,476,579)
Total Current Yea Active Swaps	r			\$ 60.000.000				\$	(12.152) \$	s (12.230)	\$ (65.047)	\$ (43.910.986)	\$ 55.523.421	\$ (4.476.579)

	Current Fiscal Year Terminated Swaps							
	Maturity		Counter			Base		
Effective Date	Date		Party	Notional Amt	Type	Index	Fixed Rate	

Current Fiscal Year - Total Swaps

	Cash Flow							
Prior	Current		Cumulative					
Month	Month	Fiscal YTD	Net Accrual					

Mark to Market				
Current Mark to	Notional			
Market	Difference			

Total Current Year Terminated Swaps

\$ -

Cash Flow
Prior Current Cumulative

Fiscal YTD

Net Accrual

Month

Month

Mark to Market

Current Mark to Notional

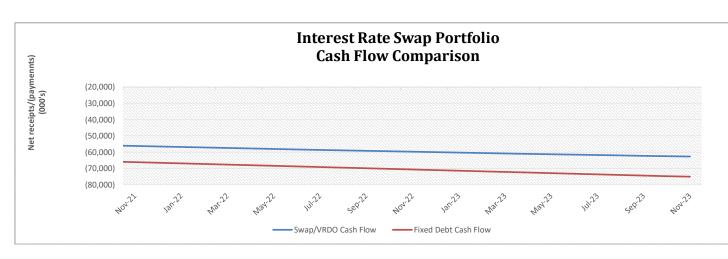
Market Difference

Total Current Year Active & Terminated Swaps

\$ 60,000,000

(12,152) \$ (12,230) \$ (65,047) \$ (43,910,986) \$

55,523,421 \$ (4,476,579)



Cash Flow Comparison
Synthetic Fixed vs. Fixed Rate Debt

Cash Flow to Date \$62,634,421

Synthetic Fixed =

Fixed Rate = \$75,065,995

Assumptions:

- Fixed rate debt issued at 4.93% in Mar-07 (estimated TE rate Bloomberg)
- 'Synthetic' includes swap cash flow + interest + fees to date

Note: This page is intentionally left blank.

Exhibit "D"

IRVINE RANCH WATER DISTRICT AP DISBURSEMENTS AND VOIDS FOR NOVEMBER 2023

		AP DISBURSEMENTS AND VOIDS			
CHECK OR ELECTRONIC #	PAYMENT	CURRUERS	PAYMENT	DAVIMENT METHOD	CTATUC
439246	DATE 2-Nov-23	SUPPLIERS ACCUSTANDARD INC	530.54	IRWD Wells Fargo Check No Print	Reconciled
439247	2-Nov-23	ALGON, MERAV	21.98	IRWD Wells Fargo Check No Print	Reconciled
439248	2-Nov-23	APCO GRAPHICS INC	290.93	IRWD Wells Fargo Check No Print	Reconciled
439249	2-Nov-23	AQUA-METRIC SALES COMPANY	5,532.45	IRWD Wells Fargo Check No Print	Reconciled
439250	2-Nov-23	ARCADIS U.S., INC.	23,541.50	IRWD Wells Fargo Check No Print	Reconciled
439251	2-Nov-23	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA	2,138.00	IRWD Wells Fargo Check No Print	Reconciled
439252	2-Nov-23	AT&T CORP	62.38	IRWD Wells Fargo Check No Print	Reconciled
439253 439254	2-Nov-23 2-Nov-23	AT&T CORP AT&T CORP	330.91 4,381.38	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439255	2-Nov-23	AUTOZONE PARTS, INC.	359.97	IRWD Wells Fargo Check No Print	Reconciled
439256	2-Nov-23	B.L. WILCOX & ASSOCIATES	16,743.90	IRWD Wells Fargo Check No Print	Negotiable
439257	2-Nov-23	BPS SUPPLY GROUP	613.94	IRWD Wells Fargo Check No Print	Reconciled
439258	2-Nov-23	C WELLS PIPELINE MATERIALS INC	1,419.07	IRWD Wells Fargo Check No Print	Reconciled
439259	2-Nov-23	CHEM TECH INTERNATIONAL INC	19,432.08	IRWD Wells Fargo Check No Print	Reconciled
439260 439261	2-Nov-23 2-Nov-23	CHITTENDEN, ANGELA CITY OF TUSTIN	388.71 893.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439262	2-Nov-23	CORE & MAIN LP	24,317.02	IRWD Wells Fargo Check No Print	Reconciled
439263	2-Nov-23	COX COMMUNICATIONS, INC.	115.51	IRWD Wells Fargo Check No Print	Reconciled
439264	2-Nov-23	CURATIVE I.T. LLC	197.72	IRWD Wells Fargo Check No Print	Reconciled
439265	2-Nov-23	D & H WATER SYSTEMS INC.	37,144.04	IRWD Wells Fargo Check No Print	Reconciled
439266	2-Nov-23	DAVIES, RACHEL	33.13	IRWD Wells Fargo Check No Print	Reconciled
439267	2-Nov-23	DAVIS FARR LLP	4,000.00	IRWD Wells Fargo Check No Print	Reconciled
439268	2-Nov-23	DCS MANAGEMENT LLC	84.34	IRWD Wells Fargo Check No Print	Reconciled
439269	2-Nov-23	DG INVESTMENT INTERMEDIATE HOLDINGS 2, INC.	33,428.00	IRWD Wells Fargo Check No Print	Reconciled
439270 439271	2-Nov-23 2-Nov-23	DIEP, KATELYN DIRECTV INC	29.00 152.99	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439271	2-Nov-23	EAST ORANGE COUNTY WATER DISTRICT	2,036.07	IRWD Wells Fargo Check No Print	Reconciled
439273	2-Nov-23	ELITE AUTOMOTIVE SERVICE, LLC	412.98	IRWD Wells Fargo Check No Print	Reconciled
439274	2-Nov-23	EMD MILLIPORE CORP.	8,265.87	IRWD Wells Fargo Check No Print	Reconciled
439275	2-Nov-23	EUROFINS EATON ANALYTICAL, INC.	100.00	IRWD Wells Fargo Check No Print	Reconciled
439276	2-Nov-23	FARRELL & ASSOCIATES	2,793.75	IRWD Wells Fargo Check No Print	Reconciled
439277	2-Nov-23	FISHER SCIENTIFIC COMPANY LLC	3,905.21	IRWD Wells Fargo Check No Print	Reconciled
439278	2-Nov-23	FRONTIER CALIFORNIA INC.	343.06	IRWD Wells Fargo Check No Print	Reconciled
439279 439280	2-Nov-23 2-Nov-23	GEA MECHANICAL EQUIPMENT US, INC. GEI CONSULTANTS INC	2,911.92 2,710.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439281	2-Nov-23	GOLDMAN, SACHS & CO. LLC	11,972.60	IRWD Wells Fargo Check No Print	Negotiable
439282	2-Nov-23	GRAINGER	6,869.83	IRWD Wells Fargo Check No Print	Reconciled
439283	2-Nov-23	GRAYBAR ELECTRIC COMPANY	1,992.66	IRWD Wells Fargo Check No Print	Reconciled
439284	2-Nov-23	HACH COMPANY	3,014.87	IRWD Wells Fargo Check No Print	Reconciled
439285	2-Nov-23	HANES, CRISTINA	18.09	IRWD Wells Fargo Check No Print	Reconciled
439286	2-Nov-23	HDR ENGINEERING INC	40,220.00	IRWD Wells Fargo Check No Print	Negotiable
439287	2-Nov-23	HERC RENTALS INC.	538.60	IRWD Wells Fargo Check No Print	Reconciled
439288 439289	2-Nov-23 2-Nov-23	HOME DEPOT USA INC HOME DEPOT USA INC	908.47 695.04	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439290	2-Nov-23	HUBER TECHNOLOGY INC.	110,058.56	IRWD Wells Fargo Check No Print	Negotiable
439291	2-Nov-23	INDUSTRIAL METAL SUPPLY CO	24.53	IRWD Wells Fargo Check No Print	Reconciled
439292	2-Nov-23	IRVINE PACIFIC	294.12	IRWD Wells Fargo Check No Print	Reconciled
439293	2-Nov-23	ISRAEL, LUKE	18.96	IRWD Wells Fargo Check No Print	Reconciled
439294	2-Nov-23	KAESER COMPRESSORS, INC.	1,571.46	IRWD Wells Fargo Check No Print	Reconciled
439295	2-Nov-23	KAGEYAMA, KEN	18.14	IRWD Wells Fargo Check No Print	Reconciled
439296 439297	2-Nov-23 2-Nov-23	KAN VENTURES, INC KANG, HYUNKUE	9,119.40 24.83	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439298	2-Nov-23	KIMBALL MIDWEST	5,470.74	IRWD Wells Fargo Check No Print	Reconciled
439299	2-Nov-23	LINDE GAS & EQUIPMENT INC.	4,629.93	IRWD Wells Fargo Check No Print	Reconciled
439300	2-Nov-23	LSA ASSOCIATES INC	2,983.75	IRWD Wells Fargo Check No Print	Reconciled
439301	2-Nov-23	MC FADDEN-DALE INDUSTRIAL	60.68	IRWD Wells Fargo Check No Print	Reconciled
439302	2-Nov-23	MCCLAINS FURNITURE	2,971.39	IRWD Wells Fargo Check No Print	Reconciled
439303	2-Nov-23	MORSCO SUPPLY, LLC	2,081.41	IRWD Wells Fargo Check No Print	Reconciled
439304	2-Nov-23	NATIONAL PLANT SERVICES, INC.	10,600.00	IRWD Wells Fargo Check No Print	Reconciled
439305 439306	2-Nov-23 2-Nov-23	NMG GEOTECHNICAL INC NOVA GEOTECHNICAL AND INSPECTION SERVICES	8,908.10 4,237.50	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439307	2-Nov-23	ONESOURCE DISTRIBUTORS LLC	2,038.69	IRWD Wells Fargo Check No Print	Reconciled
439308	2-Nov-23	ORANGE COUNTY FIRE AUTHORITY	281.00	IRWD Wells Fargo Check No Print	Reconciled
439309	2-Nov-23	ORANGE COUNTY TREASURER	509.00	IRWD Wells Fargo Check No Print	Reconciled
439310	2-Nov-23	OUTSOURCE TECHNICAL LLC	3,575.00	IRWD Wells Fargo Check No Print	Reconciled
439311	2-Nov-23	PACIFIC MECHANICAL SUPPLY	1,026.49	IRWD Wells Fargo Check No Print	Reconciled
439312	2-Nov-23	PARSONS, GABRIELLE	75.00	IRWD Wells Fargo Check No Print	Reconciled
439313	2-Nov-23	PAYMENTUS CORPORATION	67,759.41	IRWD Wells Fargo Check No Print	Reconciled
439314 439315	2-Nov-23 2-Nov-23	PERKINELMER U.S. LLC PRONTO GYM SERVICES, INC.	11,391.00 360.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439315	2-Nov-23 2-Nov-23	PURE EFFECT INC	16,772.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
439317	2-Nov-23	QUADIENT FINANCE USA, INC.	1,000.00	IRWD Wells Fargo Check No Print	Reconciled
439318	2-Nov-23	R.F DICKSON CO INC	39.10	IRWD Wells Fargo Check No Print	Negotiable
439319	2-Nov-23	R.F. MACDONALD CO.	21,416.66	IRWD Wells Fargo Check No Print	Reconciled
439320	2-Nov-23	REAL WATER CONSULTANTS INC.	25,343.75	IRWD Wells Fargo Check No Print	Negotiable

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439322 2-Nov-23 RUCKER, KEIT 439323 2-Nov-23 SANTA MARG 439324 2-Nov-23 SCA OF CA, LL 439325 2-Nov-23 SECURITAS S 439326 2-Nov-23 SELVA-RODRI 439327 2-Nov-23 SHOGA, MUN 439328 2-Nov-23 SITEONE LANI 439329 2-Nov-23 SOUTHERN C 439330 2-Nov-23 SOUTHERN C 439331 2-Nov-23 SOUTHERN C 439332 2-Nov-23 STEVEN WEL 439333 2-Nov-23 STEVEN WEL 439333 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TOM'S TRUCK 439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOP TEN REAI 439337 2-Nov-23 TRI COUNTY F 439338 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNITED SITE S 439343 2-Nov-23 UNITED SITE S 439344 2-Nov-23 UNIVAR SOLU 439345 2-Nov-23 WERIZON WIL 439346 2-Nov-23 WERIZON WIL 439346 2-Nov-23 WERIZON WIL 439347 2-Nov-23 WESSON, WIL 439348 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439340 2-Nov-23 WESSON, WIL 439341 2-Nov-23 WESSON, WIL 439345 2-Nov-23 WESSON, WIL 439346 2-Nov-23 WESSON, WIL 439347 2-Nov-23 WESSON, WIL 439348 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WESSON, WIL 439353 9-Nov-23 ABC ICE, INC 439355 9-Nov-23 ABC ICE, INC 439356 9-Nov-23 B& K ELECTR 439356 9-Nov-23 B-S K PLECTR 439360 9-Nov-23 B-S SUPPLY G 439370 9-Nov-23 B-S SUPPLY G 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439373 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
439323 2-Nov-23 SANTA MARG 439324 2-Nov-23 SCA OF CA, LL 439325 2-Nov-23 SELVA-RODRIL 439326 2-Nov-23 SELVA-RODRIL 439327 2-Nov-23 SHOGA, MUN 439328 2-Nov-23 SHOGA, MUN 439328 2-Nov-23 SMOG TIME 439330 2-Nov-23 SOUTHERN CA 439331 2-Nov-23 SOUTHERN CA 439331 2-Nov-23 SOUTHERN CA 439332 2-Nov-23 TEVEN WELC 439333 2-Nov-23 TEVEN WELC 439333 2-Nov-23 TEVEN WELC 439335 2-Nov-23 TOP TEN REAL 439336 2-Nov-23 TOP TEN REAL 439337 2-Nov-23 TRI COUNTY F 439338 2-Nov-23 TRI COUNTY F 439339 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNISON SOLL 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNITED SITE S 439344 2-Nov-23 UNITED SITE S 439345 2-Nov-23 VECILAN NORT 439346 2-Nov-23 WASIE'S ENTE 439347 2-Nov-23 WASIE'S ENTE 439348 2-Nov-23 WASIE'S ENTE 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WESSON, WIL 439352 2-Nov-23 WESSON, WIL 439353 9-Nov-23 AUTODESK, IP 439354 9-Nov-23 AUTODESK, IP 439355 9-Nov-23 AUTODESK, IP 439356 9-Nov-23 BANOUTI, SOL 439357 9-Nov-23 BANOUTI, SOL 439358 9-Nov-23 AUTODESK, IP 439360 9-Nov-23 BANOUTI, SOL 439359 9-Nov-23 BANOUTI, SOL 439350 9-Nov-23 BANOUTI, SOL 439351 9-Nov-23 BANOUTI, SOL 439353 9-Nov-23 BANOUTI, SOL 439354 9-Nov-23 BANOUTI, SOL 439355 9-Nov-23 AUTODESK, IP 439366 9-Nov-23 BANOUTI, SOL 439357 9-Nov-23 BANOUTI, SOL 439368 9-Nov-23 BANOUTI, SOL 439369 9-Nov-23 BANOUTI, SOL 439360 9-Nov-23 BANOUTI, SOL 439360 9-Nov-23 BANOUTI, SOL 439360 9-Nov-23 BANOUTI, SOL 439360 9-Nov-23 BANOUTI, SOL 439361 9-Nov-23 BANOUTI, SOL 439361 9-Nov-23 CALIFORNIA S 439361 9-Nov-23 CALIFORNIA S 439361 9-Nov-23 CALIFORNIA S 439361 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439393 9-Nov-23 COX COMMU 43939	ON SUPPLIES DISTRIBUTOR	60.38	IRWD Wells Fargo Check No Print	Reconciled
439324 2-Nov-23 SCA OF CA, LL 439325 2-Nov-23 SECURITAS SE 439326 2-Nov-23 SELVA-RODRI, 439327 2-Nov-23 SITEONE LANI 439328 2-Nov-23 SITEONE LANI 439329 2-Nov-23 SMOG TIME 439330 2-Nov-23 SOUTHERN CO. 439331 2-Nov-23 SOUTHERN CO. 439332 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TIC-RETAIL PR 439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOM'S TRUCK 439337 2-Nov-23 TOP TEN REAI 439338 2-Nov-23 TOP TEN REAI 439339 2-Nov-23 TRICOUNTY F 439339 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED SITE S 439342 2-Nov-23 UNIVAR SOLL 439344 2-Nov-23 US BANK NAT 439345 2-Nov-23 VEOLIA NORT 439346 2-Nov-23 VERIZON WIR 439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WASTE SON, WIL 439349 2-Nov-23 WEST YOST & 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WEST YOST & 439352 2-Nov-23 WILLHOIT, NI 439352 2-Nov-23 WILLHOIT, NI 439353 9-Nov-23 ALTOZONE P, 439354 9-Nov-23 BARK VATEL 439355 9-Nov-23 BARK VATEL 439356 9-Nov-23 BARK VATEL 439356 9-Nov-23 BARK VATEL 439357 9-Nov-23 BARK VALUES & 439359 9-Nov-23 BROOKFIELD 439360 9-Nov-23 BROOKFIELD 439360 9-Nov-23 BROOKFIELD 439361 9-Nov-23 BROOKFIELD 439366 9-Nov-23 CANON SOLU 439371 9-Nov-23 CANON SOLU 439377 9-Nov-23 CANON SOLU 439379 9-Nov-23 CANON SOLU 439379 9-Nov-23 CANON SOLU 439369 9-Nov-23 BROOKFIELD 439369 9-Nov-23 CANON SOLU 439379 9-Nov-23 FEDEX 439389 9-Nov-23 FIERE EXTINGU 439379 9-Nov-23 FIERE SCIEN 439389 9-Nov-23 FIERE SCIEN 439399 9-Nov-23 FIERE SCIEN 43939	Ή	507.54	IRWD Wells Fargo Check No Print	Reconciled
439325 2-Nov-23 SECURITAS SE 439326 2-Nov-23 SELVA-RODRI 439327 2-Nov-23 SHOGA, MUN 439328 2-Nov-23 SITEONE LANI 439329 2-Nov-23 SMOG TIME 439330 2-Nov-23 SOUTHERN C 439331 2-Nov-23 SOUTHERN C 439332 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TIC-RETAIL PR 439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOM'S TRUCK 439337 2-Nov-23 TOM'S TRUCK 439338 2-Nov-23 TOM'S TRUCK 439339 2-Nov-23 TRI COUNTY F 439339 2-Nov-23 UNISON SOLU 439340 2-Nov-23 UNISON SOLU 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNITED SITE S 439344 2-Nov-23 UNIVED NOR 439344 2-Nov-23 UNIVED NOR 439345 2-Nov-23 VERIZON WIR 439346 2-Nov-23 VERIZON WIR 439347 2-Nov-23 WASTE MAN 439348 2-Nov-23 WASTE MAN 439349 2-Nov-23 WASTE MAN 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WESSON, WIL 439355 9-Nov-23 ABC ICE, INC 439356 9-Nov-23 ALAJOU, SAM 439357 9-Nov-23 ALAJOU, SAM 439358 9-Nov-23 ALAJOU, SAM 439359 9-Nov-23 ALAJOU, SAM 439359 9-Nov-23 ALAJOU, SAM 439359 9-Nov-23 B&K VALVES & 439359 9-Nov-23 BAHOUTH, JO 439360 9-Nov-23 BAHOUTH, JO 439361 9-Nov-23 BAHOUTH, JO 439366 9-Nov-23 BAHOUTH, JO 439366 9-Nov-23 BAHOUTH, JO 439369 9-Nov-23 BAHOUTH, JO 439379 9-Nov-23 GERRO, JOHN 439379 9-Nov-23 GERRO, JOHN 439379 9-Nov-23 GERRO, JOHN 4393	GARITA FORD	52.71	IRWD Wells Fargo Check No Print	Reconciled
439326 2-Nov-23 SELVA-RODRI 439327 2-Nov-23 SHOGA, MUN 439328 2-Nov-23 SITEONE LANI 439329 2-Nov-23 SOUTHERN CA 439331 2-Nov-23 SOUTHERN CA 439331 2-Nov-23 SOUTHERN CA 439332 2-Nov-23 TIC-RETAIL PR 439333 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TOM'S TRUCK 439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOM'S TRUCK 439337 2-Nov-23 TOP TEN REAI 439338 2-Nov-23 TOP TEN REAI 439339 2-Nov-23 UNISON SOLU 439340 2-Nov-23 UNISON SOLU 439340 2-Nov-23 UNISON SOLU 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNIVAR SOLU 439343 2-Nov-23 UNIVAR SOLU 439344 2-Nov-23 VERIZON WIR 439345 2-Nov-23 VERIZON WIR 439346 2-Nov-23 VERIZON WIR 439347 2-Nov-23 WASTIE MANI 439348 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WESSON, WIL 439352 2-Nov-23 WESSON, WIL 439353 9-Nov-23 ALAIOU, SAM 439354 9-Nov-23 ALAIOU, SAM 439355 9-Nov-23 ALAIOU, SAM 439356 9-Nov-23 B&K VALVES & 439357 9-Nov-23 BBR SVPLPY G 439359 9-Nov-23 BBR SVPLPY G 439360 9-Nov-23 BBR SVPLPY G 439361 9-Nov-23 BBR OKFIELD 439366 9-Nov-23 BBR OKFIELD 439366 9-Nov-23 BBR OKFIELD 439366 9-Nov-23 BBR OKFIELD 439367 9-Nov-23 CALIFORNIA S 439368 9-Nov-23 CALIFORNIA S 439379 9-Nov-23 COX COMMU 439379 9-Nov-23 COX COMMU 439379 9-Nov-23 COX COMMU 439379 9-Nov-23 FIERE EXTINGU 439379 9-Nov-23 FIERE CYINGU 439389 9-Nov-23 FIERE CYINGU 439399 9-Nov-23 FIERE CYINGU 439399 9-Nov-23 FIERE CYINGU 439399 9-Nov-23 F	_C	2,840.00	IRWD Wells Fargo Check No Print	Reconciled
439327 2-Nov-23 SHOGA, MUN 439328 2-Nov-23 SITEONE LANI 439329 2-Nov-23 SITEONE LANI 439330 2-Nov-23 SOUTHERN C 439331 2-Nov-23 SOUTHERN C 439332 2-Nov-23 STEVEN WELC 439333 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TOP TEN REAI 439335 2-Nov-23 TOP TEN REAI 439336 2-Nov-23 TOP TEN REAI 439337 2-Nov-23 TOP TEN REAI 439338 2-Nov-23 TOP TEN SOLU 439339 2-Nov-23 UNISON SOLU 439340 2-Nov-23 UNISON SOLU 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNIVAR SOLU 439343 2-Nov-23 UNIVAR SOLU 439344 2-Nov-23 US BANK NAT 439345 2-Nov-23 VECILA NORT 439346 2-Nov-23 VECILA NORT 439347 2-Nov-23 WASTE MANI 439348 2-Nov-23 WASTE MANI 439349 2-Nov-23 WEST SON, WIL 439340 2-Nov-23 WASTE MANI 439341 2-Nov-23 WASTE MANI 439345 2-Nov-23 WEST YOST & 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 XYLEM WATE 439351 2-Nov-23 ALAJOU, SAM 439352 2-Nov-23 ALAJOU, SAM 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 ALAJOU, SAM 439357 9-Nov-23 ALAJOU, SAM 439359 9-Nov-23 B&K FLECTRI 439360 9-Nov-23 BBROKFIELD 439360 9-Nov-23 BBROKFIELD 439361 9-Nov-23 BBROKFIELD 439366 9-Nov-23 BROKFIELD 439366 9-Nov-23 BROKFIELD 439366 9-Nov-23 CALIFORNIAS 439367 9-Nov-23 CANON SOLU 439377 9-Nov-23 CANON SOLU 439377 9-Nov-23 CON SOM 439369 9-Nov-23 CON SOLU 439369 9-Nov-23 CON SOLU 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 CON SOLU 439379 9-Nov-23 FIERRO, SERG 439389 9-Nov-23	ECURITY SERVICES USA, INC.	74,361.49	IRWD Wells Fargo Check No Print	Negotiable
439328 2-Nov-23 SITEONE LANI 439329 2-Nov-23 SMOG TIME 439330 2-Nov-23 SOUTHERN C/ 439331 2-Nov-23 STEVEN WELC 439332 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TIC-RETAIL PR 439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOP TEN REAI 439337 2-Nov-23 TRI COUNTY F 439338 2-Nov-23 TRI COUNTY F 439339 2-Nov-23 TRIPAC MARK 439339 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED SITE S 439342 2-Nov-23 UNITED SITE S 439344 2-Nov-23 UNITED SITE S 439345 2-Nov-23 US BANK NAT 439346 2-Nov-23 US BANK NAT 439346 2-Nov-23 WECLIAN INDL 439347 2-Nov-23 WASTE MAN/ 439348 2-Nov-23 WASTE MAN/ 439349 2-Nov-23 WASTE MAN/ 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WILHOIT, NI 439351 2-Nov-23 WILHOIT, NI 439352 2-Nov-23 XILEM WATE 439353 9-Nov-23 ALAIOU, SAM 439354 9-Nov-23 ALAIOU, SAM 439355 9-Nov-23 ALAIOU, SAM 439356 9-Nov-23 B&K VALVES (439357 9-Nov-23 BBANOUTH, JO 439359 9-Nov-23 BBANOUTH, JO 439360 9-Nov-23 BPS SUPPLY G 439361 9-Nov-23 BROOKFIELD 439366 9-Nov-23 BROOKFIELD 439366 9-Nov-23 CALIFORNIA S 439367 9-Nov-23 BROOKFIELD 439369 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 COX COMMU 439370 9-Nov-23 COX COMMU 439370 9-Nov-23 COX COMMU 439370 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439379 9-Nov-23 COX COMMU 439389 9-Nov-23 COX COMMU 439389 9-Nov-23 COX COMMU 4393989 9-Nov-23 COX COMMU 4393989 9-Nov-23 COX COMMU 4393990 9-Nov-23 COX COMMU 4393990 9-Nov-23 COX COMMU 4393990 9-Nov-23 COX COMMU	GUEZ, SAMUEL	6.94	IRWD Wells Fargo Check No Print	Reconciled
439329 2-Nov-23 SMOG TIME 439330 2-Nov-23 SOUTHERN CA 439331 2-Nov-23 SOUTHERN CA 439332 2-Nov-23 TIC-RETAIL PR 439333 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TK ELEVATOR 439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOM'S TRUCK 439337 2-Nov-23 TRI COUNTY FR 439338 2-Nov-23 TRI COUNTY FR 439339 2-Nov-23 UNISON SOLU 439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED SITE S 439342 2-Nov-23 UNITED SITE S 439343 2-Nov-23 UNITED SITE S 439344 2-Nov-23 VERIZON WIR 439345 2-Nov-23 VERIZON WIR 439346 2-Nov-23 VERIZON WIR 439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WASTE MANA 439349 2-Nov-23 WEST YOST & 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WEST YOST & 439351 2-Nov-23 WEST YOST & 439352 2-Nov-23 ALIOID, SAM 439355 9-Nov-23 ALIOID, SAM 439356 9-Nov-23 ALIOID, SAM 439357 9-Nov-23 ALIOID, SAM 439358 9-Nov-23 ALIOID, SAM 439359 9-Nov-23 BROOKFIELD 439360 9-Nov-23 BROOKFIELD 439361 9-Nov-23 BROOKFIELD 439363 9-Nov-23 CALIFORNIA S 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 BROOKFIELD 439369 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439379 9-Nov-23 CONST SHEET 439379 9-Nov-23 CONST SHEET 439379 9-Nov-23 FIERE STINGU 439379 9-Nov-23 FIERE STINGU 439379 9-Nov-23 FIERE STINGU 439379 9-Nov-23 FIERE STINGU 439389 9-Nov-23 FIERE STINGU 439399 9-Nov-23 FIERE STINGU 439399 9-Nov-23 FIERE STINGU 439399 9-Nov-23 FIERE STINGU 439399 9-Nov-23	JIR	34.60	IRWD Wells Fargo Check No Print	Negotiable
439330 2-Nov-23 SOUTHERN CO 439331 2-Nov-23 SOUTHERN CO 439332 2-Nov-23 STEVEN WELC 439333 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TOM'S TRUCK 439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOP TEN REAI 439337 2-Nov-23 TRI COUNTY F 439338 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNISON SOLL 439341 2-Nov-23 UNISON SOLL 439342 2-Nov-23 UNISON SOLL 439343 2-Nov-23 UNIVAR SOLU 439344 2-Nov-23 US BANK NAT 439345 2-Nov-23 US BANK NAT 439346 2-Nov-23 VECILIA NORT 439347 2-Nov-23 VERIZON WIR 439348 2-Nov-23 WASTE MANA 439349 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WILLHOIT, NIR 439352 2-Nov-23 XYLEM WATE 439353 9-Nov-23 ALAIOU, SAM 439354 9-Nov-23 ALAIOU, SAM 439355 9-Nov-23 ALAIOU, SAM 439356 9-Nov-23 B&K VALVES (A 439357 9-Nov-23 AUTODESK, IN 439359 9-Nov-23 BANOUTH, JO 439361 9-Nov-23 BANOUTH, JO 439363 9-Nov-23 BANOUTH, JO 439364 9-Nov-23 BANOUTH, JO 439365 9-Nov-23 BANOUTH, JO 439366 9-Nov-23 BANOUTH, JO 439367 9-Nov-23 BANOUTH, JO 439369 9-Nov-23 CALIFORNIA S 439371 9-Nov-23 CALIFORNIA S 439371 9-Nov-23 CALIFORNIA S 439371 9-Nov-23 CALIFORNIA S 439371 9-Nov-23 CALIFORNIA S 439379 9-Nov-23 CONST SHEET 439379 9-Nov-23 CONST SHEET 439379 9-Nov-23 FIERE STINGU 439379 9-Nov-23 FIERE SCIEN 439389 9-Nov-23 FIERE SCIEN 439390 9-Nov-23 FIERE SCIEN 439390 9-Nov-23 FIERE SCIEN 439390 9-No	DSCAPE SUPPLY, LLC	201.91	IRWD Wells Fargo Check No Print	Reconciled
439331 2-Nov-23 SOUTHERN CO 439332 2-Nov-23 STEVEN WELG 439333 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOP TEN REAI 439337 2-Nov-23 TOP TEN REAI 439338 2-Nov-23 TRIPAC MARK 439339 2-Nov-23 UNISON SOLU 439340 2-Nov-23 UNISON SOLU 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNIVAR SOLU 439343 2-Nov-23 UNIVAR SOLU 439344 2-Nov-23 US BANK NAT 439345 2-Nov-23 US BANK NAT 439346 2-Nov-23 WEGILA NORT 439347 2-Nov-23 WASTE MANK 439348 2-Nov-23 WASTE MANK 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WESSON, WIL 439352 2-Nov-23 ABC ICE, INC 439353 9-Nov-23 ALAIOU, SAM 439354 9-Nov-23 ALAIOU, SAM 439356 9-Nov-23 AUTOCOSH, IN 439357 9-Nov-23 B&K VALVES (439359 9-Nov-23 BAHOUTH, IO 439360 9-Nov-23 BPS SUPPLY G 439361 9-Nov-23 BPS SUPPLY 439360 9-Nov-23 BPS SUPPLY 439361 9-Nov-23 BROOKFIELD 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CANON SOLU 439377 9-Nov-23 CANON SOLU 439367 9-Nov-23 CANON SOLU 439369 9-Nov-23 CANON SOLU 439379 9-Nov-23 CANON SOLU 439371 9-Nov-23 CANON SOLU 439371 9-Nov-23 CONSTILLA S 439371 9-Nov-23 CANON SOLU 439377 9-Nov-23 CANON SOLU 439379 9-Nov-23 CONST SHEET 439379 9-Nov-23 FIERE SCIEN 439389 9-Nov-23 FIERE SCIEN 439399 9-Nov-23 FIERE SCIEN 439399 9-Nov-23 FIERE SCIEN 439399 9-N		65.00	IRWD Wells Fargo Check No Print	Reconciled
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439333 2-Nov-23 TIC-RETAIL PR 439334 2-Nov-23 TK ELEVATOR 439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOP TEN REAL 439337 2-Nov-23 TRI COUNTY F 439338 2-Nov-23 TRIPAC MARK 439339 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNITED SITE S 439343 2-Nov-23 UNIVED NOR 439344 2-Nov-23 UNIVED NOR 439345 2-Nov-23 VERIZON WIR 439346 2-Nov-23 VERIZON WIR 439347 2-Nov-23 WASTE MANK 439348 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WESSON, WIL 439352 2-Nov-23 WESSON, WIL 439353 9-Nov-23 ALAJOU, SAM 439354 9-Nov-23 ALAJOU, SAM 439355 9-Nov-23 AUTODESK, IN 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 B&K VALVES & 439359 9-Nov-23 BBR VALVES 439360 9-Nov-23 BBR SUPPLY G 439360 9-Nov-23 BROOKFIELD 439361 9-Nov-23 BROOKFIELD 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439367 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 COX COMMU 439370 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439379 9-Nov-23 COX COMMU 439379 9-Nov-23 COX COMMU 439379 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 GRAYBAR ELE 439399 9-Nov-23 HOME DEPOT	ALIFORNIA EDISON COMPANY	770,266.36	IRWD Wells Fargo Check No Print	Negotiable
439334 2-Nov-23 TK ELEVATOR 439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOP TEN REAI 439337 2-Nov-23 TRI COUNTY F 439338 2-Nov-23 UNISON SOLU 439340 2-Nov-23 UNISON SOLU 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNIVAR SOLU 439343 2-Nov-23 US BANK NAT 439344 2-Nov-23 VEOLIA NORT 439345 2-Nov-23 VEOLIA NORT 439346 2-Nov-23 VERIZON WIR 439346 2-Nov-23 WASTE MANA 439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WILHOIT, NIR 439352 2-Nov-23 XYLEM WATE 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 ALAJOU, SAM 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 B&K VALVES & 439359 9-Nov-23 BAHOUTH, JO 439360 9-Nov-23 BROOKFIELD 439361 9-Nov-23 BROOKFIELD 439363 9-Nov-23 CALIFORNIA S 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439367 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439370 9-Nov-23 CALIFORNIA S 439371 9-Nov-23 CALIFORNIA S 439371 9-Nov-23 CALIFORNIA S 439373 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439379 9-Nov-23 CANON SOLU 439379 9-Nov-23 CON COMMU 439379 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT		245.00	IRWD Wells Fargo Check No Print	Reconciled
439335 2-Nov-23 TOM'S TRUCK 439336 2-Nov-23 TOP TEN REAL 439337 2-Nov-23 TRI COUNTY F 439338 2-Nov-23 TRIPAC MARK 439339 2-Nov-23 UNISON SOLU 439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNIVAR SOLU 439343 2-Nov-23 US BANK NAT 439344 2-Nov-23 US BANK NAT 439345 2-Nov-23 VEGLIA NORT 439346 2-Nov-23 VERIZON WIR 439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WASTE MANA 439348 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WILHOIT, NIC 439352 2-Nov-23 WILHOIT, NIC 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 ALAJOU, SAM 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 B& K ELECTRI 439360 9-Nov-23 BAHOUTH, J 439361 9-Nov-23 BAHOUTH, J 439362 9-Nov-23 BROOKFIELD 439363 9-Nov-23 BROOKFIELD 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439370 9-Nov-23 COX COMMU 439370 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439373 9-Nov-23 FIERRO, SERG 439374 9-Nov-23 FIERRO, SERG 439375 9-Nov-23 FIERRO, SERG 439376 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SERG 439399 9-Nov-23 FIERRO, SERG 439399 9-Nov-23 FIERRO, SERG 439399 9-Nov-23 FIERRO, S		5,219.92	IRWD Wells Fargo Check No Print	Reconciled
439336 2-Nov-23 TOP TEN REAL 439337 2-Nov-23 TRI COUNTY F 439338 2-Nov-23 TRIPAC MARK 439339 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNITED SITE S 439341 2-Nov-23 UNITED SITE S 439342 2-Nov-23 UNITED SITE S 439343 2-Nov-23 UNITED SITE S 439344 2-Nov-23 US BANK NAT 439344 2-Nov-23 VEOLIA NORT 439345 2-Nov-23 VERIZON WIR 439346 2-Nov-23 VERIZON WIR 439347 2-Nov-23 WAXIE'S ENTE 439348 2-Nov-23 WAXIE'S ENTE 439349 2-Nov-23 WEST YOST & 439350 2-Nov-23 WILHOIT, NIC 439351 2-Nov-23 WILHOIT, NIC 439352 2-Nov-23 WILHOIT, NIC 439353 9-Nov-23 ALAJOU, SAM 439354 9-Nov-23 ALAJOU, SAM 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 B& K ELECTRI 439360 9-Nov-23 B& WEST YOST & 439361 9-Nov-23 BAROOKFIELD 439361 9-Nov-23 BROOKFIELD 439363 9-Nov-23 CALIFORNIA S 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 COX COMMU 439370 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439373 9-Nov-23 FIERRO, SERG 439373 9-Nov-23 FIERRO, SERG 439374 9-Nov-23 FIERRO, SERG 439375 9-Nov-23 FIERRO, SERG 439376 9-Nov-23 FIERRO, SERG 439377 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439385 9-Nov-23 FIERRO, SERG 439386 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, JOHN 439379 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, JOHN 439379 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, JOHN 439389 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, JOHN 439389 9-Nov-23 FIERRO, JOHN 439399	CORPORATION	2,568.08	IRWD Wells Fargo Check No Print	Reconciled
439337 2-Nov-23 TRI COUNTY F 439338 2-Nov-23 TRIPAC MARK 439339 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED PARC 439342 2-Nov-23 UNIVAR SOLL 439343 2-Nov-23 US BANK NAT 439344 2-Nov-23 VEOLIA NORT 439345 2-Nov-23 VERIZON WIR 439346 2-Nov-23 VERIZON WIR 439346 2-Nov-23 WASTE MANA 439348 2-Nov-23 WASTE MANA 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WEST YOST & 439352 2-Nov-23 WILLHOIT, NIR 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 ALAJOU, SAM 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 B& K ELECTR 439360 9-Nov-23 BAHOUTH, JO 439361 9-Nov-23 BROOKFIELD 439363 9-Nov-23 BROOKFIELD 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439367 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CALIFORNIA S 439370 9-Nov-23 CALIFORNIA S 439371 9-Nov-23 CONST SHEET 439372 9-Nov-23 CONST SHEET 439373 9-Nov-23 CONST SHEET 439374 9-Nov-23 CONST SHEET 439375 9-Nov-23 CALIFORNIA S 439377 9-Nov-23 CONST SHEET 439379 9-Nov-23 CONST SHEET 439389 9-Nov-23 HORE DEPOT 439393 9-Nov-23 HORE DEPOT 439393 9-Nov-23 HORE DEPOT 439394 9-Nov-23 HORE DEPOT 439394 9-Nov-23 HOME DEPOT 439394 9-Nov-23 HOME DEPOT	CENTER NORTH COUNTY, LLC	1,025.45	IRWD Wells Fargo Check No Print	Reconciled
439338 2-Nov-23 TRIPAC MARK 439339 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED SITE S 439342 2-Nov-23 UNITED SITE S 439343 2-Nov-23 UNIVAR SOLL 439344 2-Nov-23 US BANK NAT 439345 2-Nov-23 VEQLIA NORT 439346 2-Nov-23 VELICAN INDL 439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WEST YOST S 439351 2-Nov-23 WILHOIT, NI 439352 2-Nov-23 WILHOIT, NI 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 AUTODESK, IN 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 B& K ELECTR 439360 9-Nov-23 BAHOUTH, JO 439361 9-Nov-23 BROOKFIELD S 439363 9-Nov-23 BROOKFIELD S 439364 9-Nov-23 CAUFORNIA 439365 9-Nov-23 CAUFORNIA 439366 9-Nov-23 CAUFORNIA 439367 9-Nov-23 CAUFORNIA 439368 9-Nov-23 CAUFORNIA 439369 9-Nov-23 CAUFORNIA 439370 9-Nov-23 CHICK- FIL-A I 439371 9-Nov-23 COONTY OF C 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, JOHN 439389 9-Nov-23 FIERRO, JOHN 439399 9-Nov-23 FIERRO, JOHN 439399 9-Nov-23 FIERRO, JOHN 439399 9-Nov-23 FI		57.90	IRWD Wells Fargo Check No Print	Reconciled
439339 2-Nov-23 UNISON SOLL 439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED SITE 5 439342 2-Nov-23 US BANK NAT 439344 2-Nov-23 VEOLIA NORT 439345 2-Nov-23 VEOLIA NORT 439346 2-Nov-23 VEIZON WIR 439346 2-Nov-23 WASTE MANK 439347 2-Nov-23 WASTE MANK 439348 2-Nov-23 WASTE SITE 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WILHOIT, NIR 439352 2-Nov-23 WILHOIT, NIR 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 BAROUTH, JO 439360 9-Nov-23 BROOKFIELD I 439361 9-Nov-23 BROOKFIELD I 439363 9-Nov-23 BROOKFIELD I 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439367 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CHICK- FIL-A I 439369 9-Nov-23 CLEAN ENERG 439370 9-Nov-23 CLEAN ENERG 439371 9-Nov-23 COUNTY OF O 439373 9-Nov-23 ENVIRONMEN 439374 9-Nov-23 ENVIRONMEN 439375 9-Nov-23 FEDEX 439379 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 FIERRO, SERG 439385 9-Nov-23 FIERRO, SERG 439386 9-Nov-23 FIERRO, SERG 439387 9-Nov-23 FIERRO, SERG 439388 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SERG 439399 9-Nov-		9,443.45	IRWD Wells Fargo Check No Print	Reconciled
439340 2-Nov-23 UNITED PARC 439341 2-Nov-23 UNITED SITE 5 439342 2-Nov-23 UNIVAR SOLU 439343 2-Nov-23 US BANK NAT 439344 2-Nov-23 VEOLIA NOR 439345 2-Nov-23 VEOLIA NOR 439346 2-Nov-23 VEOLIA NOR 439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WASTE SITE 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WILHOIT, NIV 439352 2-Nov-23 WILHOIT, NIV 439353 9-Nov-23 ABC ICE, INC 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 ALAJOU, SAM 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 AUTODESK, IN 439359 9-Nov-23 BROKFIELD 439360 9-Nov-23 BROKFIELD 439361 9-Nov-23 BROKFIELD 439364 9-Nov-23 BROKFIELD 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439367 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 COUNTY OF OR 439371 9-Nov-23 CONST SHEET 439373 9-Nov-23 ENVIRONMEN 439374 9-Nov-23 ENVIRONMEN 439375 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 FEDEX 439379 9-Nov-23 FIERE EXTINGU 439379 9-Nov-23 FIERE SCIEN 439380 9-Nov-23 FIERE SCIEN 439381 9-Nov-23 FIERE SCIEN 439381 9-Nov-23 FIERE SCIEN 439383 9-Nov-23 FIERE SCIEN 439384 9-Nov-23 FIERE SCIEN 439385 9-Nov-23 FIERE SCIEN 439386 9-Nov-23 FIERE SCIEN 439387 9-Nov-23 FIERE SCIEN 439388 9-Nov-23 FIERE SCIEN 439389 9-Nov-23 FIERE SCIEN 439390 9-Nov-23 FIERE 439390 9-Nov-23 FI		1,213.69	IRWD Wells Fargo Check No Print	Reconciled
439341 2-Nov-23 UNITED SITE S 439342 2-Nov-23 UNIVAR SOLU 439343 2-Nov-23 US BANK NAT 439344 2-Nov-23 VEOLIA NORT 439345 2-Nov-23 VEIZCON WIR 439346 2-Nov-23 VULCAN INDU 439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WASTE SENT 439349 2-Nov-23 WEST YOST & 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WILHOIT, NI 439352 2-Nov-23 WILHOIT, NI 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTOZONE P, 439357 9-Nov-23 B& K ELECTR 439358 9-Nov-23 BBROKFIELD I 439360 9-Nov-23 BROOKFIELD I 439361 9-Nov-23 BROOKFIELD I 439362 9-Nov-23 CALIFORNIA S 439363 9-Nov-23 CHICK- FIL-A I 439366 9-Nov-23 CANON SOLU 439367 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439370 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439373 9-Nov-23 ENVIRONMEN 439374 9-Nov-23 ENVIRONMEN 439375 9-Nov-23 FEDEX 439378 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, JOHN 439382 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, JOHN 439389 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SE		21,258.78	IRWD Wells Fargo Check No Print	Reconciled
439342 2-Nov-23 UNIVAR SOLU 439343 2-Nov-23 US BANK NAT 439344 2-Nov-23 VEOLIA NORT 439345 2-Nov-23 VEIZON WIR 439346 2-Nov-23 VULCAN INDL 439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WESSON, WIL 439351 2-Nov-23 WILHOIT, NI 439352 2-Nov-23 XYLEM WATE 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 ALAJOU, SAM 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 B& K ELECTR 439360 9-Nov-23 BAHOUTH, JO 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BROOKFIELD 439363 9-Nov-23 BROOKFIELD 439364 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CHEAN SOLU 439367 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CHICK- FIL-A I 439369 9-Nov-23 CHICK- FIL-A I 439369 9-Nov-23 CHICK- FIL-A I 439370 9-Nov-23 CHEAN ENERG 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 ENVIRONMEN 439375 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 FISHER SCIEN 439378 9-Nov-23 FISHER SCIEN 439379 9-Nov-23 FISHER SCIEN 439380 9-Nov-23 FISHER SCIEN 439381 9-Nov-23 FISHER SCIEN 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 FISHER SCIEN 439384 9-Nov-23 FISHER SCIEN 439385 9-Nov-23 FISHER SCIEN 439386 9-Nov-23 FISHER SCIEN 439387 9-Nov-23 FISHER SCIEN 439388 9-Nov-23 FISHER SCIEN 439389 9-Nov-23 FISHER SCIEN 439399 9-Nov-23 FISHER SCIEN 439390 9-Nov-23 FISHER 439390 9-Nov-23 FISHER 439390 9-Nov-23 FISHER 439390 9-Nov-23 FISHER 439390 9-Nov-		71.29	IRWD Wells Fargo Check No Print	Reconciled
439343 2-Nov-23 US BANK NAT 439344 2-Nov-23 VEOLIA NORT 439345 2-Nov-23 VERIZON WIR 439346 2-Nov-23 VULCAN INDL 439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WILLHOIT, NI 439352 2-Nov-23 WILLHOIT, NI 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 AUTODESK, IN 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 B& K ELECTRI 439358 9-Nov-23 B& K VALVES & 439360 9-Nov-23 BAHOUTH, IO 439361 9-Nov-23 BAHOUTH, IO 439362 9-Nov-23 BAHOUTH, IO 439363 9-Nov-23 BAHOUTH, IO 439364 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439373 9-Nov-23 ENVIRONMEN 439374 9-Nov-23 ENVIRONMEN 439375 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIRE EXTINGU 439380 9-Nov-23 FIRE EXTINGU 439381 9-Nov-23 FIRE EXTINGU 439382 9-Nov-23 FIRE EXTINGU 439383 9-Nov-23 FIRE EXTINGU 439384 9-Nov-23 GEORGE T. HA 439385 9-Nov-23 FIRE EXTINGU 439386 9-Nov-23 FIRE EXTINGU 439387 9-Nov-23 FIRE EXTINGU 439388 9-Nov-23 FIRE EXTINGU 439389 9-Nov-23 FIRE EXTINGU 439390 9-Nov-	SERVICES OF CALIFORNIA INC	291.82	IRWD Wells Fargo Check No Print	Reconciled
439344 2-Nov-23 VEOLIA NORT 439345 2-Nov-23 VERIZON WIR 439346 2-Nov-23 VULCAN INDU 439347 2-Nov-23 WASTE MAN/ 439348 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WILHOIT, NI 439352 2-Nov-23 WILHOIT, NI 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 B&K VALVES & 439359 9-Nov-23 B&K VALVES & 439360 9-Nov-23 BAHOUTH, JO 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BAHOUTH, JO 439363 9-Nov-23 BAHOUTH, JO 439364 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439368 9-Nov-23 CALIFORNIA S 439369 9-Nov-23 CITY OF NEWI 439369 9-Nov-23 CITY OF NEWI 439370 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439373 9-Nov-23 DELL MARKET 439374 9-Nov-23 ENVIRONMEN 439375 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERERO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 FIERRO, SERG 439385 9-Nov-23 FIERRO, SERG 439386 9-Nov-23 FIERRO, SERG 439387 9-Nov-23 FIERRO, SERG 439388 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, JOHN 439389 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, JOHN 439389 9-Nov-23 FIERRO, SERG 439390 9-Nov-2		12,608.40	IRWD Wells Fargo Check No Print	Reconciled
439345 2-Nov-23 VERIZON WIR 439346 2-Nov-23 VULCAN INDU 439347 2-Nov-23 WASTE MAN/ 439348 2-Nov-23 WESSON, WIL 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WILHOIT, NI 439352 2-Nov-23 XILEM WATE 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 AUTODESK, IN 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTOZONE P, 439358 9-Nov-23 B& K ELECTRI 439360 9-Nov-23 B& K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BAHOUTH, JO 439363 9-Nov-23 CALIFORNIA S 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CITY OF NEW 439367 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF ORA 439370 9-Nov-23 COAST SHEET 439371 9-Nov-23 COX COMMU 439374 9-Nov-23 COX COMMU 439375 9-Nov-23 COX COMMU 439376 9-Nov-23 ENVIRONMEN 439379 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERE CYINGO 439379 9-Nov-23 FIERE SCIEN 439380 9-Nov-23 FIERE SCIEN 439381 9-Nov-23 FIERE SCIEN 439383 9-Nov-23 FIERE SCIEN 439384 9-Nov-23 FIERE SCIEN 439385 9-Nov-23 FIERE SCIEN 439386 9-Nov-23 FIERE SCIEN 439387 9-Nov-23 FIERE SCIEN 439388 9-Nov-23 FIERE SCIEN 439389 9-Nov-23 FIERE 439390 9-Nov-23 FIERE 4393	L'L ASSOCIATION NORTH DAKOTA	79,353.72 5,760,60	IRWD Wells Fargo Check No Print	Reconciled
439346 2-NOV-23 VULCAN INDU 439347 2-NOV-23 WASTE MANA 439348 2-NOV-23 WESSON, WIL 439350 2-NOV-23 WEST YOST & 439351 2-NOV-23 WILLHOIT, NI 439352 2-NOV-23 WILLHOIT, NI 439353 9-NOV-23 ABC ICE, INC 439355 9-NOV-23 ALAJOU, SAM 439356 9-NOV-23 ALAJOU, SAM 439356 9-NOV-23 AUTODESK, IN 439357 9-NOV-23 AUTODESK, IN 439358 9-NOV-23 AUTODESK, IN 439359 9-NOV-23 B&K VALVES & 439360 9-NOV-23 B&K VALVES & 439361 9-NOV-23 BAHOUTH, JO 439362 9-NOV-23 BROOKFIELD 439363 9-NOV-23 CALIFORNIA 439364 9-NOV-23 CALIFORNIA 439365 9-NOV-23 CALIFORNIA 439366 9-NOV-23 CALIFORNIA 439366 9-NOV-23 CALIFORNIA 439366 9-NOV-23 CALIFORNIA 439367 9-NOV-23 CHICK- FIL-A I 439368 9-NOV-23 CITY OF ORAN 439370 9-NOV-23 COAST SHEET 439371 9-NOV-23 COAST SHEET 439372 9-NOV-23 COX COMMU 439373 9-NOV-23 COX COMMU 439374 9-NOV-23 ENVIRONMEN 439375 9-NOV-23 ENVIRONMEN 439376 9-NOV-23 FIERRO, SERG 439381 9-NOV-23 FIERRO, SERG 439381 9-NOV-23 FIERRO, SERG 439383 9-NOV-23 FIERRO, SERG 439384 9-NOV-23 FIERRO, SERG 439385 9-NOV-23 FIERRO, SERG 439386 9-NOV-23 FIERRO, SERG 439387 9-NOV-23 FIERRO, SERG 439388 9-NOV-23 FIERRO, SERG 439389 9-NOV-23 FIERRO, SERG 439399 9-NOV-23 FIERRO, SERG 439399 9-NOV-23 FIERRO, SERG 439399 9-NOV-23 FIE		5,769.69 18,431.55	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439347 2-Nov-23 WASTE MANA 439348 2-Nov-23 WASIE MANA 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WILLHOIT, NI 439352 2-Nov-23 XYLEM WATE 439353 9-Nov-23 ABC ICE, INC 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 ALAJOU, SAM 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 AUTODESK, IN 439359 9-Nov-23 B& K FLECTRI 439360 9-Nov-23 B& K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BROOKFIELD I 439363 9-Nov-23 CALIFORNIA S 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CANON SOLU 439367 9-Nov-23 CANON SOLU 439368 9-Nov-23 CITY OF NEWI 439369 9-Nov-23 CITY OF ORAM 439370 9-Nov-23 COAST SHEET 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COX COMMU 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 COX COMMU 439375 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 FIERRO, SERG 439385 9-Nov-23 FIERRO, SERG 439386 9-Nov-23 FIERRO, SERG 439387 9-Nov-23 FIERRO, SERG 439388 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SERG 439399 9-Nov-23 FIERRO, SERG 439399 9-Nov-23 FIERRO, SERG 439399 9-Nov-23		18,431.55 2,769.96	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
439348 2-Nov-23 WAXIE'S ENTE 439349 2-Nov-23 WESSON, WIL 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WILHOIT, NIC 439352 2-Nov-23 XYLEM WATE 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 AUTODESK, IN 439359 9-Nov-23 B& K FLECTRI 439360 9-Nov-23 B& K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BROOKFIELD I 439363 9-Nov-23 BROOKFIELD I 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CAIFORNIA S 439366 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEW 439369 9-Nov-23 COX COMMU 439370 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 ENVIRONMEN 439375 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 FIERRO, SERG 439385 9-Nov-23 FIERRO, SERG 439386 9-Nov-23 FIERRO, SERG 439387 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINEE 439390 9-Nov-23 HOME DEPOT 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	AGEMENT COLLECTIONS AND RECYCLING, INC.	6,556.55	IRWD Wells Fargo Check No Print	Reconciled
439349 2-Nov-23 WESSON, WILL 439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WILLHOIT, NIC 439352 2-Nov-23 XYLEM WATE 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 ALAJOU, SAM 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 AUTOZONE P. 439359 9-Nov-23 B& K FLECTRI 439360 9-Nov-23 B&K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BROOKFIELD 439363 9-Nov-23 BROOKFIELD 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 COX COMMU 439375 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 FEDEX 439378 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 FIERRO, SERG 439385 9-Nov-23 FIERRO, SERG 439386 9-Nov-23 FIERRO, SERG 439387 9-Nov-23 FIERRO, SERG 439388 9-Nov-23 FIERRO, SERG 439389 9-Nov-23 FIERRO, SERG 439390 9-Nov-23 FIERRO,		1,180.36	IRWD Wells Fargo Check No Print	Reconciled
439350 2-Nov-23 WEST YOST & 439351 2-Nov-23 WILHOIT, NIC 439352 2-Nov-23 XYLEM WATER 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 B&K VALVES & 439360 9-Nov-23 B&K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BROOKFIELD & 439363 9-Nov-23 BROOKFIELD & 439364 9-Nov-23 CALIFORNIA & 439365 9-Nov-23 CALIFORNIA & 439366 9-Nov-23 CHICK-FIL-A I 439368 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CONST SHEET & 439371 9-Nov-23 COX COMMU 439371 9-Nov-23 COX COMMU 439374 9-Nov-23 COX COMMU 439375 9-Nov-23 COX COMMU 439376 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439379 9-Nov-23 FASTBLUE CO 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 GERRO, JOHN 439384 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINEER 439389 9-Nov-23 HDR ENGINEER 439389 9-Nov-23 HDR ENGINEER 439390 9-Nov-23 H	•	244.61	IRWD Wells Fargo Check No Print	Reconciled
439351 2-Nov-23 WILLHOIT, NII 439352 2-Nov-23 XYLEM WATEI 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 AUTOZONE P, 439359 9-Nov-23 B& K ELECTRI 439360 9-Nov-23 B&K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BROOKFIELD I 439363 9-Nov-23 BROOKFIELD I 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CHICK- FIL-A I 439366 9-Nov-23 CITY OF NEW 439367 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439370 9-Nov-23 CITY OF ORAN 439371 9-Nov-23 COX COMMU 439374 9-Nov-23 COX COMMU 439375 9-Nov-23 COX COMMU 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439382 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 GERRO, JOHN 439384 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HOR ENGINEER 439390 9-Nov-23 HOR ENGINEER 439390 9-Nov-23 HOR ENGINEER 439391 9-Nov-23 HOR ENGINEER 439393 9-Nov-23 HOR ENGINEER 439393 9-Nov-23 HOR ENGINEER 439394 9-Nov-23 HOR ENGINEER 439394 9-Nov-23 HOR ENGINEER 439399 HOR-23 HOR ENGINEER 4393	ASSOCIATES, INC.	3,549.50	IRWD Wells Fargo Check No Print	Reconciled
439352 2-Nov-23 XYLEM WATE 439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 AUTOZONE P, 439359 9-Nov-23 B& K ELECTR 439360 9-Nov-23 B&K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BPS SUPPLY G 439363 9-Nov-23 BROOKFIELD 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CHICK- FILA- II 439367 9-Nov-23 CHICK- FILA- II 439368 9-Nov-23 CITY OF NEM 439370 9-Nov-23 CITY OF NEM 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COX COMMU 439374 9-Nov-23 COX COMMU 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439382 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 GRAYBAR ELE 439385 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HOR ENGINE 439389 9-Nov-23 HOR ENGINE 439389 9-Nov-23 HOR ENGINE 439390 9-Nov-23 HOR ENGINE 439391 9-Nov-23 HOR ENGINE 439393 9-Nov-23 HOR ENGINE 439393 9-Nov-23 HOR ENGINE 439393 9-Nov-23 HOR ENGINE		36.57	IRWD Wells Fargo Check No Print	Reconciled
439353 9-Nov-23 ABC ICE, INC 439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 AUTOZONE P, 439359 9-Nov-23 B& K ELECTRI 439360 9-Nov-23 B&K VALVES & 439361 9-Nov-23 BAHOUTH, IO 439362 9-Nov-23 BPS SUPPLY G 439363 9-Nov-23 BROOKFIELD & 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NOW 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 CITY OF ORAN 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COX COMMU 439374 9-Nov-23 DELL MARKET 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 FASTBLUE CO 439378 9-Nov-23 FIRER EXTINGU 439380 9-Nov-23 FIRER EXTINGU 439381 9-Nov-23 GERRO, JOHN 439382 9-Nov-23 GRAYBAR ELE 439383 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439389 9-Nov-23 HACH COMPA 439389 9-Nov-23 HACH COMPA 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HOME DEPOT 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	R SOLUTIONS USA, INC.	1,710.96	IRWD Wells Fargo Check No Print	Reconciled
439354 9-Nov-23 AIRGAS, INC. 439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AUTODESK, IN 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 AUTOZONE P. 439359 9-Nov-23 B&K VALVES & 439360 9-Nov-23 B&K VALVES & 439361 9-Nov-23 BAHOUTH, IN 439362 9-Nov-23 BPS SUPPLY & 439363 9-Nov-23 BROOKFIELD & 439364 9-Nov-23 CALIFORNIA & 439365 9-Nov-23 CALIFORNIA & 439366 9-Nov-23 CHICK-FIL-A I 439368 9-Nov-23 CITY OF NEWI 439369 9-Nov-23 CITY OF NEWI 439370 9-Nov-23 CLEAN ENERG 439371 9-Nov-23 COUNTY OF OR 439373 9-Nov-23 COUNTY OF OR 439374 9-Nov-23 COX COMMU 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERERO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 FIERRO, SERG 439385 9-Nov-23 FIERRO, SERG 439386 9-Nov-23 FIERRO, SERG 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAINGER 439389 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HACH COMPA 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT		285.50	IRWD Wells Fargo Check No Print	Reconciled
439355 9-Nov-23 ALAJOU, SAM 439356 9-Nov-23 AMAYA SOLU 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 AUTOZONE P. 439359 9-Nov-23 B& K FLECTRI 439360 9-Nov-23 B& K VALVES 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BROOKFIELD 439363 9-Nov-23 BROOKFIELD 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CITY OF ORAN 439367 9-Nov-23 CITY OF ORAN 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 CLEAN ENEET 439371 9-Nov-23 COX COMMU 439372 9-Nov-23 COX COMMU 439373 9-Nov-23 DELL MARKET 439374 9-Nov-23 DELL MARKET 439375 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439382 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 FIERRO, SERG 439385 9-Nov-23 GRAINGER 439386 9-Nov-23 FIERRO, SERG 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMP 439390 9-Nov-23 HOR ENGINEE 439390 9-Nov-23 HOR ENGINEE 439391 9-Nov-23 HOR ENGINEE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT		1,523.37	IRWD Wells Fargo Check No Print	Reconciled
439356 9-Nov-23 AMAYA SOLU 439357 9-Nov-23 AUTODESK, IN 439358 9-Nov-23 B& K ELECTR! 439360 9-Nov-23 B& K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BPS SUPPLY G 439363 9-Nov-23 BROOKFIELD 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEWI 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 COAST SHEET 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COX COMMU 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 ENVIRONMEN 439375 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FISHER SCIEN 439379 9-Nov-23 FISHER SCIEN 439380 9-Nov-23 FISHER SCIEN 439381 9-Nov-23 FISHER SCIEN 439382 9-Nov-23 GRAINGER 439383 9-Nov-23 GRAINGER 439384 9-Nov-23 GRAINGER 439385 9-Nov-23 GRAINGER 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAINGER 439389 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINE 439390 9-Nov-23 HDR ENGINE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	1IR	52.04	IRWD Wells Fargo Check No Print	Reconciled
439357 9-Nov-23 AUTODESK, IM 439358 9-Nov-23 AUTOZONE P. 439359 9-Nov-23 B& K ELECTRI 439360 9-Nov-23 B&K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BPS SUPPLY G 439363 9-Nov-23 BROOKFIELD 439365 9-Nov-23 CAHIFORNIA 439366 9-Nov-23 CAHORNIA 439366 9-Nov-23 CHICK-FIL-A I 439368 9-Nov-23 CITY OF NEWI 439369 9-Nov-23 CITY OF NEWI 439370 9-Nov-23 CITY OF ORAN 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COX COMMU 439373 9-Nov-23 DELL MARKET 439374 9-Nov-23 DELL MARKET 439375 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 FASTBLUE CO 439378 9-Nov-23 FEDEX 439379 9-Nov-23 FIERE SCIEN 439380 9-Nov-23 FIERE SCIEN 439380 9-Nov-23 FIERE SCIEN 439381 9-Nov-23 FIERE SCIEN 439382 9-Nov-23 GERRO, JOHN 439384 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINE 439390 9-Nov-23 HDR ENGINE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT		5,463.52	IRWD Wells Fargo Check No Print	Reconciled
439359 9-Nov-23 B & K ELECTRI 439360 9-Nov-23 B&K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BPS SUPPLY G 439363 9-Nov-23 BROOKFIELD I 439364 9-Nov-23 CALIFORNIA S 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CANON SOLU 439367 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 CLEAN ENERG 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COX COMMU 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 ENVIRONMEN 439379 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439382 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, JOHN 439384 9-Nov-23 GERRO, JOHN 439385 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HOR ENGINEE 439390 9-Nov-23 HOR ENGINEE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT		8,591.00	IRWD Wells Fargo Check No Print	Reconciled
439360 9-Nov-23 B&K VALVES & 439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BPS SUPPLY & 439363 9-Nov-23 BROOKFIELD & 439364 9-Nov-23 CALIFORNIA & 439365 9-Nov-23 CALIFORNIA & 439366 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEW & 439369 9-Nov-23 CITY OF NEW & 439370 9-Nov-23 COAST SHEET & 439372 9-Nov-23 COAST SHEET & 439373 9-Nov-23 COX COMMU & 439374 9-Nov-23 DELL MARKET & 439375 9-Nov-23 ENVIRONMEN & 439376 9-Nov-23 ENVIRONMEN & 439377 9-Nov-23 ENVIRONMEN & 439378 9-Nov-23 ENVIRONMEN & 439379 9-Nov-23 FIERRO, SERG & 439380 9-Nov-23 FIERRO, SERG & 439380 9-Nov-23 FIERRO, SERG & 439381 9-Nov-23 FIERRO, SERG & 439381 9-Nov-23 FIERRO, JOHN & 439384 9-Nov-23 GERRO, JOHN & 439385 9-Nov-23 GERRO, JOHN & 439386 9-Nov-23 GRAYBAR ELE & 439389 9-Nov-23 GRAYBAR ELE & 439389 9-Nov-23 HOR ENGINEER & 439389 9-Nov-23 HOR ENGINEER & 439389 9-Nov-23 HOR ENGINEER & 439390 9-Nov-23 HOME DEPOT & 439391 9-Nov-23 HOME DEPOT & 439391 9-Nov-23 HOME DEPOT & 439393 9-Nov-23 HOME DEPOT & 439394 9-Nov-23 HOME DEPOT	ARTS, INC.	812.30	IRWD Wells Fargo Check No Print	Reconciled
439361 9-Nov-23 BAHOUTH, JO 439362 9-Nov-23 BPS SUPPLY G 439363 9-Nov-23 BROOKFIELD I 439364 9-Nov-23 CWELLS PIPE 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439370 9-Nov-23 CITY OF NEW 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COAST SHEET 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DELL MARKET 439375 9-Nov-23 ENVIRONMEN 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, JOHN 439382 9-Nov-23 FIERRO, JOHN 439384 9-Nov-23 GEORGE T. H/ 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAYBAR ELE 439387 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 HACH COMPA 439390 9-Nov-23 HOME DEPOT 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	IC WHOLESALE	5,293.30	IRWD Wells Fargo Check No Print	Reconciled
439362 9-Nov-23 BPS SUPPLY G 439363 9-Nov-23 BROOKFIELD 439364 9-Nov-23 C WELLS PIPE 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEW 439369 9-Nov-23 CITY OF NEW 439370 9-Nov-23 CICAN ENERG 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF O 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439382 9-Nov-23 FIERRO, JOHN 439384 9-Nov-23 FIERRO, JOHN 439385 9-Nov-23 GRAYBAR ELE 439386 9-Nov-23 GRAYBAR ELE 439387 9-Nov-23 HACH COMPA 439388 9-Nov-23 HACH COMPA 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HOME DEPOT 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	& EQUIPMENT, INC.	13,917.71	IRWD Wells Fargo Check No Print	Reconciled
439363 9-Nov-23 BROOKFIELD 439364 9-Nov-23 C WELLS PIPE 439365 9-Nov-23 CALIFORNIA 5 439366 9-Nov-23 CHICK- FIL-A I 439367 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 CLEAN ENERGY 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF COAST 5 HEET 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DELL MARKET 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE COAST 5 HEET 439380 9-Nov-23 FIRE EXTINGU 439381 9-Nov-23 FIRE EXTINGU 439381 9-Nov-23 FIRE EXTINGU 439381 9-Nov-23 FIRE EXTINGU 439383 9-Nov-23 FIRE EXTINGU 439384 9-Nov-23 GEORGE T. HA 439385 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HOME DEPOT 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, INFOSE	DHN	341.38	IRWD Wells Fargo Check No Print	Reconciled
439364 9-Nov-23 C WELLS PIPE 439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CANON SOLU 439367 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEWI 439370 9-Nov-23 CITY OF ORAN 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF OC 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439382 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 GERRO, JOHN 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GERRO, JOHN 439387 9-Nov-23 GERRO, JOHN 439388 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAINGER 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HACH COMPA 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	GROUP	3,256.28	IRWD Wells Fargo Check No Print	Reconciled
439365 9-Nov-23 CALIFORNIA S 439366 9-Nov-23 CANON SOLU 439367 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEWI 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 CLEAN ENERG 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF C 439373 9-Nov-23 DC FROST ASS 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439382 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 GERRO, JOHN 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GERRO, JOHN 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	RESIDENTIAL	149.02	IRWD Wells Fargo Check No Print	Reconciled
439366 9-Nov-23 CANON SOLU 439367 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEWI 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 CLEAN ENERG 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF OR 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439382 9-Nov-23 FIERRO, SERG 439383 9-Nov-23 FIERRO, SERG 439384 9-Nov-23 GERRO, JOHN 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GERRO, JOHN 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAINGER 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HOR ENGINEE 439391 9-Nov-23 HOME ENGINEE	LINE MATERIALS INC	1,690.60	IRWD Wells Fargo Check No Print	Reconciled
439367 9-Nov-23 CHICK- FIL-A I 439368 9-Nov-23 CITY OF NEWI 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 CLEAN ENERG 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF C 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FISHER SCIEN 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 GERRO, JOHN 439384 9-Nov-23 GERRO, JOHN 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINEE 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	SPECIAL DISTRICTS ASSOCIATION	9,275.00	IRWD Wells Fargo Check No Print	Reconciled
439368 9-Nov-23 CITY OF NEWI 439369 9-Nov-23 CITY OF ORAN 439370 9-Nov-23 CLEAN ENERG 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF C 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FISHER SCIEN 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 GEORGE T. H/ 439384 9-Nov-23 GERRO, JOHN 439385 9-Nov-23 GRAINGER 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINEE 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	ITIONS AMERICA, INC	2,388.45	IRWD Wells Fargo Check No Print	Reconciled
439369 9-Nov-23 CITY OF ORAM 439370 9-Nov-23 CLEAN ENERG 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF C 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FISHER SCIEN 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 FLW, INC. 439384 9-Nov-23 GERRO, JOHN 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINEE 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT	NC.	755.14	IRWD Wells Fargo Check No Print	Reconciled
439370 9-Nov-23 CLEAN ENERGY 439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF CO 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERGY 439380 9-Nov-23 FIERRO, SERGY 439381 9-Nov-23 FIERRO, SERGY 439382 9-Nov-23 FIERRO, SERGY 439383 9-Nov-23 FIERRO, JOHN 439384 9-Nov-23 GERRO, JOHN 439385 9-Nov-23 GRAYBAR ELE 439386 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINER 439390 9-Nov-23 HDR ENGINER 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 HOME DEPOT	PORT BEACH	2,351.08	IRWD Wells Fargo Check No Print	Reconciled
439371 9-Nov-23 COAST SHEET 439372 9-Nov-23 COUNTY OF CO 439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERRO, SERG 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 FLW, INC. 439384 9-Nov-23 GEORGE T. H/ 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 HACH COMPA 439389 9-Nov-23 HDE RENGINEE 439390 9-Nov-23 HDE RENGINEE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 HOME DEPOT	NGE	496.15	IRWD Wells Fargo Check No Print	Reconciled
439372 9-Nov-23 COUNTY OF	GΥ	9,066.74	IRWD Wells Fargo Check No Print	Reconciled
439373 9-Nov-23 COX COMMU 439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIERE SCIEN 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 FLW, INC. 439384 9-Nov-23 GEORGE T. HA 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINER 439390 9-Nov-23 HILLINE INC 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 HOME DEPOT	•	1,685.00	IRWD Wells Fargo Check No Print	Reconciled
439374 9-Nov-23 DC FROST ASS 439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FISHER EXTINGU 439382 9-Nov-23 FLW, INC. 439384 9-Nov-23 GEORGE T. H. 439385 9-Nov-23 GEORGE T. H. 439386 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 HACH COMPA 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HI-LINE INC 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 HOME DEPOT		751.53	IRWD Wells Fargo Check No Print	Reconciled
439375 9-Nov-23 DELL MARKET 439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FIERRO, SERG 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIRE EXTINGU 439382 9-Nov-23 FLW, INC. 439383 9-Nov-23 GEORGE T. HA 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HI-LINE INC 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 HOME DEPOT	INICATIONS, INC.	283.95	IRWD Wells Fargo Check No Print	Reconciled
439376 9-Nov-23 ENVIRONMEN 439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIRE EXTINGU 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 FLW, INC. 439384 9-Nov-23 GEORGE T. HA 439385 9-Nov-23 GHD INC. 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439388 9-Nov-23 HACH COMPA 439390 9-Nov-23 HI-LINE INC 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN	•	7,074.49	IRWD Wells Fargo Check No Print	Reconciled
439377 9-Nov-23 ENVIRONMEN 439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FISHER SCIEN 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 GEORGE T. HA 439384 9-Nov-23 GHD INC. 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HI-LINE INC 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 HOME DEPOT		54,410.84	IRWD Wells Fargo Check No Print	Negotiable
439378 9-Nov-23 FASTBLUE CO 439379 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FISHER SCIEN 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 GEORGE T. H/ 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINEE 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN	NTAL EXPRESS INC	2,541.69	IRWD Wells Fargo Check No Print	Reconciled
439379 9-Nov-23 FEDEX 439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIRE EXTINGU 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 GEORGE T. H/ 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HDR ENGINEE 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN	NTAL SCIENCE ASSOCIATES	16,542.03	IRWD Wells Fargo Check No Print	Reconciled
439380 9-Nov-23 FIERRO, SERG 439381 9-Nov-23 FIRE EXTINGU 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 FLW, INC. 439384 9-Nov-23 GEORGE T. H/ 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN	OMMUNICATIONS INC.	1,988.72	IRWD Wells Fargo Check No Print	Reconciled
439381 9-Nov-23 FIRE EXTINGU 439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 FLW, INC. 439384 9-Nov-23 GEORGE T. H/ 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN		522.24	IRWD Wells Fargo Check No Print	Reconciled
439382 9-Nov-23 FISHER SCIEN 439383 9-Nov-23 FLW, INC. 439384 9-Nov-23 GEORGE T. H/ 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GRAINGER 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HI-LINE INC 439391 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439393 9-Nov-23 INFOSEND, IN		4,662.00	IRWD Wells Fargo Check No Print	Negotiable
439383 9-Nov-23 FLW, INC. 439384 9-Nov-23 GEORGE T. H/ 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GHD INC. 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 INFOSEND, IN	JISHING SAFETY & SERVICE	821.21	IRWD Wells Fargo Check No Print	Reconciled
439384 9-Nov-23 GEORGE T. HA 439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GHD INC. 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 INFOSEND, IN	ITIFIC COMPANY LLC	5,647.30	IRWD Wells Fargo Check No Print	Reconciled
439385 9-Nov-23 GERRO, JOHN 439386 9-Nov-23 GHD INC. 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 INFOSEND, IN	ALL CO. INC	2,167.07	IRWD Wells Fargo Check No Print	Reconciled
439386 9-Nov-23 GHD INC. 439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HOME DEPOT 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 INFOSEND, IN		10,548.12	IRWD Wells Fargo Check No Print	Reconciled
439387 9-Nov-23 GRAINGER 439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HI-LINE INC 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN	1	27.81	IRWD Wells Fargo Check No Print	Reconciled
439388 9-Nov-23 GRAYBAR ELE 439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HI-LINE INC 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN		37,271.03	IRWD Wells Fargo Check No Print	Reconciled
439389 9-Nov-23 HACH COMPA 439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HI-LINE INC 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN	CTRIC COMPANY	1,292.42 23 976 17	IRWD Wells Fargo Check No Print	Reconciled
439390 9-Nov-23 HDR ENGINEE 439391 9-Nov-23 HI-LINE INC 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN		23,976.17	IRWD Wells Fargo Check No Print	Negotiable Reconciled
439391 9-Nov-23 HI-LINE INC 439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN		4,670.96 7,933,75	IRWD Wells Fargo Check No Print	Reconciled
439392 9-Nov-23 HOME DEPOT 439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN	INING INC	7,933.75 1,035,20	IRWD Wells Fargo Check No Print	Reconciled
439393 9-Nov-23 HOME DEPOT 439394 9-Nov-23 INFOSEND, IN	CLISA INC	1,035.20 635.54	IRWD Wells Fargo Check No Print	Reconciled Reconciled
439394 9-Nov-23 INFOSEND, IN		635.54	IRWD Wells Fargo Check No Print	Reconciled
		354.93 55 502 80	IRWD Wells Fargo Check No Print	Reconciled
		55,592.89 15,484.68	IRWD Wells Fargo Check No Print	Negotiable Reconciled
435353 3-140A-53 15.V 3131EIAI3	IIVC		IRWD Wells Fargo Check No Print	neconclied
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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
439396	9-Nov-23	KU, SUOEN	54.12	IRWD Wells Fargo Check No Print	Negotiable
439397	9-Nov-23	LEE & RO, INC.	5,427.00	IRWD Wells Fargo Check No Print	Reconciled
439398	9-Nov-23	LENNAR HOMES OF CALIFORNIA, INC.	470.40	IRWD Wells Fargo Check No Print	Reconciled
439399	9-Nov-23	LINDE GAS & EQUIPMENT INC.	118.50	IRWD Wells Fargo Check No Print	Reconciled
439400	9-Nov-23	MALSTEAD, JEFF	180.60	IRWD Wells Fargo Check No Print	Reconciled
439401	9-Nov-23	MASSOUDI, KATHY	220.41	IRWD Wells Fargo Check No Print	Reconciled
439402	9-Nov-23	MC FADDEN-DALE INDUSTRIAL	182.71	IRWD Wells Fargo Check No Print	Reconciled
439403	9-Nov-23	MC MASTER CARR SUPPLY CO	331.07	IRWD Wells Fargo Check No Print	Reconciled
439404	9-Nov-23	MCCALL'S METERS, INC.	1,028.77	IRWD Wells Fargo Check No Print	Reconciled
439405	9-Nov-23	MILES CHEMICAL COMPANY, INC.	3,509.56	IRWD Wells Fargo Check No Print	Reconciled
439406	9-Nov-23	MORSCO SUPPLY, LLC	2,546.84	IRWD Wells Fargo Check No Print	Reconciled
439407	9-Nov-23	NATIONAL READY MIXED CONCRETE SALES, LLC	4,020.43	IRWD Wells Fargo Check No Print	Reconciled
439408	9-Nov-23	NINYO & MOORE	4,989.00	IRWD Wells Fargo Check No Print	Reconciled
439409	9-Nov-23	ON CALL EVENT RENTALS	2,047.72	IRWD Wells Fargo Check No Print	Reconciled
439410	9-Nov-23	ONESOURCE DISTRIBUTORS LLC	1,170.05	IRWD Wells Fargo Check No Print	Reconciled
439411	9-Nov-23	ORANGE COUNTY FIRE AUTHORITY	1,992.00	IRWD Wells Fargo Check No Print	Reconciled
439412	9-Nov-23	OSTS, INC	10,850.00	IRWD Wells Fargo Check No Print	Negotiable
439413	9-Nov-23	PELLETIER & ASSOCIATES, INC.	394.00	IRWD Wells Fargo Check No Print	Reconciled
439414	9-Nov-23	POLLARDWATER.COM	4,396.20	IRWD Wells Fargo Check No Print	Reconciled
439415	9-Nov-23	PROTEUS CONSULTING	26,600.00	IRWD Wells Fargo Check No Print	Reconciled
439416	9-Nov-23	PRUDENTIAL OVERALL SUPPLY	10,070.92	IRWD Wells Fargo Check No Print	Reconciled
439417	9-Nov-23	QUINN COMPANY	1,103.36	IRWD Wells Fargo Check No Print	Reconciled
439418	9-Nov-23	ROBERT HALF INC.	8,903.07	IRWD Wells Fargo Check No Print	Reconciled
439419	9-Nov-23	ROSEMOUNT INC.	2,291.43	IRWD Wells Fargo Check No Print	Reconciled
439420	9-Nov-23	SANTA FE SPRINGS WATER SYSTEMS CO.	1,673.00	IRWD Wells Fargo Check No Print	Reconciled
439421	9-Nov-23	SANTA MARGARITA FORD	1,697.26	IRWD Wells Fargo Check No Print	Reconciled
439422	9-Nov-23	SHAMROCK SUPPLY CO INC	597.14	IRWD Wells Fargo Check No Print	Reconciled
439423	9-Nov-23	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	1,330.52	IRWD Wells Fargo Check No Print	Negotiable
439424	9-Nov-23	SOUTHERN CALIFORNIA EDISON COMPANY	1,357,017.82	IRWD Wells Fargo Check No Print	Negotiable
439425	9-Nov-23	SOUTHERN CALIFORNIA EDISON COMPANY	799.90	IRWD Wells Fargo Check No Print	Reconciled
439426	9-Nov-23	STONE, ZACHARY	888.95	IRWD Wells Fargo Check No Print	Negotiable
439427	9-Nov-23	TAYLOR MORRISON OF CALIFORNIA, LLC	127.55	IRWD Wells Fargo Check No Print	Reconciled
439428	9-Nov-23	TIC-RETAIL PROPERTIES	4,830.78	IRWD Wells Fargo Check No Print	Reconciled
439429	9-Nov-23	TINOSI, INC	800.00	IRWD Wells Fargo Check No Print	Reconciled
439430	9-Nov-23	TK ELEVATOR CORPORATION	1,550.00	IRWD Wells Fargo Check No Print	Reconciled
439431	9-Nov-23	UNITED PARCEL SERVICE INC	30.00	IRWD Wells Fargo Check No Print	Reconciled
439432	9-Nov-23	UNITED SITE SERVICES OF CALIFORNIA INC	873.37	IRWD Wells Fargo Check No Print	Reconciled
439433	9-Nov-23	VEOLIA WATER TECHNOLOGIES TREATMENT SOLUTIONS USA INC.	195.11	IRWD Wells Fargo Check No Print	Reconciled
439434	9-Nov-23	VERIZON WIRELESS SERVICES LLC	5,654.31	IRWD Wells Fargo Check No Print	Reconciled
439435	9-Nov-23	VULCAN MATERIALS COMPANY	2,705.63	IRWD Wells Fargo Check No Print	Reconciled
439436	9-Nov-23	VWR INTERNATIONAL, LLC	56.35	IRWD Wells Fargo Check No Print	Reconciled
439437	9-Nov-23	WALTERS WHOLESALE ELECTRIC	311.30	IRWD Wells Fargo Check No Print	Reconciled
439438	9-Nov-23	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	326.97	IRWD Wells Fargo Check No Print	Reconciled
439439	9-Nov-23	WATERSMART SOFTWARE INC	16,402.87	IRWD Wells Fargo Check No Print	Reconciled
439440	9-Nov-23	WAXIE'S ENTERPRISES, INC	1,679.82	IRWD Wells Fargo Check No Print	Reconciled
439441	9-Nov-23	WELLINGTON LABORATORIES LLC	4,100.00	IRWD Wells Fargo Check No Print	Reconciled
439442	9-Nov-23	WEST COAST SAND & GRAVEL INC. WESTAIR GASES & EQUIPMENT, INC.	2,189.59	IRWD Wells Fargo Check No Print	Reconciled
439443	9-Nov-23	•	42.80	IRWD Wells Fargo Check No Print	Reconciled
439444	9-Nov-23 9-Nov-23	XYLEM WATER SOLUTIONS USA, INC.	3,972.24	IRWD Wells Fargo Check No Print	Negotiable
439445 439446	9-Nov-23	YAO, FANG YUNMI MARTIN	5.54 7,500.00	IRWD Wells Fargo Check No Print	Reconciled Reconciled
			•	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check	
439447 439448	9-Nov-23 9-Nov-23	ALBERTSON'S LLC FRANCHISE TAX BOARD	35,653.50 92.00	IRWD Wells Fargo Check	Reconciled Reconciled
439449	9-Nov-23	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	6,149.31	IRWD Wells Fargo Check	Reconciled
439450	9-Nov-23	PERS LONG TERM CARE	661.00	IRWD Wells Fargo Check	Reconciled
439451	16-Nov-23	SOUTHERN CALIFORNIA EDISON COMPANY	1.78	IRWD Wells Fargo Check No Print	Reconciled
439452	16-Nov-23	SPARKLETTS	291.35	IRWD Wells Fargo Check No Print	Reconciled
439452	16-Nov-23	ABC ICE, INC	285.50	IRWD Wells Fargo Check No Print	Reconciled
439454	16-Nov-23	ACCUSTANDARD INC	201.55	IRWD Wells Fargo Check No Print	Reconciled
439455	16-Nov-23	AFFINITY PAINTING COMPANY INC	2,310.00	IRWD Wells Fargo Check No Print	Negotiable
439456	16-Nov-23	AGILENT TECHNOLOGIES, INC.	1,034.40	IRWD Wells Fargo Check No Print	Reconciled
439457	16-Nov-23	AIR TECHNOLOGY LABORATORIES	492.00	IRWD Wells Fargo Check No Print	Negotiable
439458	16-Nov-23	AIRGAS, INC.	3,163.61	IRWD Wells Fargo Check No Print	Reconciled
439458 439459	16-Nov-23 16-Nov-23	ANDRITZ SEPARATION, INC.	4,117.61	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
439459	16-Nov-23 16-Nov-23	ARIZONA PIPELINE COMPANY	4,117.61 295,170.94	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
439461	16-Nov-23	ASHFORD, WALT	295,170.94 584.68	IRWD Wells Fargo Check No Print	Reconciled
439461	16-Nov-23 16-Nov-23	AT&T CORP	1,044.90	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
439462	16-Nov-23 16-Nov-23	AT&T CORP	1,564.65	_	Reconciled
				IRWD Wells Fargo Check No Print	
439464	16-Nov-23	AT&T CORP	148.41	IRWD Wells Fargo Check No Print	Reconciled
439465 439466	16-Nov-23	ATHENS SERVICES	14,683.10	IRWD Wells Fargo Check No Print	Reconciled
439466 439467	16-Nov-23	AUTOZONE PARTS, INC. RABAK GOSHTASRI AND RAMDAD GOSHTASRI	1,728.60	IRWD Wells Fargo Check No Print	Reconciled
439467	16-Nov-23	BABAK GOSHTASBI AND BAMDAD GOSHTASBI	60.39 36.684.00	IRWD Wells Fargo Check No Print	Reconciled
439468	16-Nov-23	BALLARD MARINE CONSTRUCTION RASHIPTASH SAFED	36,684.00	IRWD Wells Fargo Check No Print	Reconciled
439469 439470	16-Nov-23 16-Nov-23	BASHIRTASH, SAEED BAVCO BACKFLOW APPARATUS & VALVE COMPANY	22.39	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Reconciled
4 3747U	TO-INOV-23		10,188.20	MAND MENS LAIRO CHECK INO LIMIT	Reconciled
		D - 3			P

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CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
439471	16-Nov-23	BORCHARD SURVEYING & MAPPING, INC.	9,465.00	IRWD Wells Fargo Check No Print	Reconciled
439472	16-Nov-23	BRIAN HOMSY	2,139.48	IRWD Wells Fargo Check No Print	Reconciled
439473	16-Nov-23	C WELLS PIPELINE MATERIALS INC	2,661.42	IRWD Wells Fargo Check No Print	Reconciled
439474	16-Nov-23	CANON FINANCIAL SERVICES, INC.	1,082.89	IRWD Wells Fargo Check No Print	Reconciled
439475	16-Nov-23	CHAIREL CUSTOM HAY, INC.	6,659.12	IRWD Wells Fargo Check No Print	Reconciled
439476	16-Nov-23	CHEM TECH INTERNATIONAL INC	14,566.60	IRWD Wells Fargo Check No Print	Reconciled
439477	16-Nov-23	CHO DESIGN ASSOCIATES, INC	3,200.00	IRWD Wells Fargo Check No Print	Reconciled
439478	16-Nov-23	COMMERCIAL SCAFFOLDING OF CA, INC. CORE & MAIN LP	7,200.00	IRWD Wells Fargo Check No Print	Reconciled
439479 439480	16-Nov-23 16-Nov-23	COUNTY OF ORANGE	2,518.12 1,528.00	IRWD Wells Fargo Check No Print	Reconciled Reconciled
439481	16-Nov-23	CR & R INCORPORATED	521.65	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled
439482	16-Nov-23	CURATIVE I.T. LLC	1,083.36	IRWD Wells Fargo Check No Print	Reconciled
439483	16-Nov-23	D & G SIGNS	3,134.26	IRWD Wells Fargo Check No Print	Reconciled
439484	16-Nov-23	DAIOHS USA INCORPORATED	995.72	IRWD Wells Fargo Check No Print	Reconciled
439485	16-Nov-23	DCS MANAGEMENT LLC	84.34	IRWD Wells Fargo Check No Print	Reconciled
439486	16-Nov-23	DELL MARKETING LP	3,259.37	IRWD Wells Fargo Check No Print	Reconciled
439487	16-Nov-23	DILYTICS INC	3,260.00	IRWD Wells Fargo Check No Print	Reconciled
439488	16-Nov-23	DMS FACILITY SERVICES, LLC	34,965.17	IRWD Wells Fargo Check No Print	Reconciled
439489	16-Nov-23	DOUGLAS ENVIRONMENTAL GROUP INC	1,750.00	IRWD Wells Fargo Check No Print	Reconciled
439490	16-Nov-23	DXP ENTERPRISES, INC.	49,283.96	IRWD Wells Fargo Check No Print	Reconciled
439491	16-Nov-23	E SOURCE COMPANIES LLC	6,000.00	IRWD Wells Fargo Check No Print	Reconciled
439492	16-Nov-23	E.J. MEYER COMPANY	8,267.64	IRWD Wells Fargo Check No Print	Reconciled
439493	16-Nov-23	EAGLE PRINT DYNAMICS	16,685.04	IRWD Wells Fargo Check No Print	Reconciled
439494	16-Nov-23	ENEL X ADVISORY SERVICES NORTH AMERICA, INC.	9,000.00	IRWD Wells Fargo Check No Print	Negotiable
439495	16-Nov-23	ENVIRONMENTAL RESOURCE ASSOCIATES	307.72	IRWD Wells Fargo Check No Print	Reconciled
439496	16-Nov-23	ENVIRONMENTAL SCIENCE ASSOCIATES	5,115.00	IRWD Wells Fargo Check No Print	Reconciled
439497	16-Nov-23	EUROFINS EATON ANALYTICAL, INC.	500.00	IRWD Wells Fargo Check No Print	Reconciled
439498	16-Nov-23	FEDEX	817.51	IRWD Wells Fargo Check No Print	Reconciled
439499	16-Nov-23	FISHER SCIENTIFIC COMPANY LLC	16,037.63	IRWD Wells Fargo Check No Print	Reconciled
439500	16-Nov-23	FRONTIER CALIFORNIA INC.	62.57	IRWD Wells Fargo Check No Print	Reconciled
439501	16-Nov-23	GEA MECHANICAL EQUIPMENT US, INC.	4,274.92	IRWD Wells Fargo Check No Print	Reconciled
439502	16-Nov-23	GEI CONSULTANTS INC	8,120.50	IRWD Wells Fargo Check No Print	Reconciled
439503	16-Nov-23	GEIGER BROS	125.50	IRWD Wells Fargo Check No Print	Reconciled
439504	16-Nov-23	GOFORTH & MARTI	14,656.56	IRWD Wells Fargo Check No Print	Reconciled
439505	16-Nov-23	GRAINGER	8,613.38	IRWD Wells Fargo Check No Print	Reconciled
439506	16-Nov-23	GRAYBAR ELECTRIC COMPANY	14,186.53	IRWD Wells Fargo Check No Print	Reconciled
439507	16-Nov-23	HACH COMPANY	614.54	IRWD Wells Fargo Check No Print	Reconciled
439508	16-Nov-23	HDR ENGINEERING INC	25,683.13	IRWD Wells Fargo Check No Print	Reconciled
439509	16-Nov-23	HEATHER MCDERMOTT	1,766.00	IRWD Wells Fargo Check No Print	Negotiable
439510	16-Nov-23	HI-LINE INC	727.01	IRWD Wells Fargo Check No Print	Reconciled
439511	16-Nov-23	HOME DEPOT USA INC	1,352.40	IRWD Wells Fargo Check No Print	Reconciled
439512	16-Nov-23	HOME DEPOT USA INC	645.59	IRWD Wells Fargo Check No Print	Reconciled
439513	16-Nov-23	HORIZON ENGINEERING SYSTEMS LLC	20,740.00	IRWD Wells Fargo Check No Print	Negotiable
439514	16-Nov-23	IMPERIAL SPRINKLER SUPPLY, INC.	350.12	IRWD Wells Fargo Check No Print	Reconciled
439515	16-Nov-23	INDUSTRIAL METAL SUPPLY CO	714.35	IRWD Wells Fargo Check No Print	Reconciled
439516	16-Nov-23	INDUSTRIAL SCIENTIFIC CORPORATION	884.54	IRWD Wells Fargo Check No Print	Reconciled
439517	16-Nov-23	INNOVATIVE CONSTRUCTION SOLUTIONS	391,690.32	IRWD Wells Fargo Check No Print	Negotiable
439518	16-Nov-23	INTEGRITY MUNICIPAL SERVICES LLC	61,701.00	IRWD Wells Fargo Check No Print	Reconciled
439519 439520	16-Nov-23 16-Nov-23	INTERNATIONAL ACCREDITATION SERVICE, INC IRVINE COMMUNITY DEVELOPMENT COMPANY LLC	2,750.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439521	16-Nov-23	IRVINE MANAGEMENT COMPANY	100,528.46 419.55	IRWD Wells Fargo Check No Print	Negotiable
439522	16-Nov-23	IRVINE PACIFIC	159.60	IRWD Wells Fargo Check No Print	Negotiable
439523	16-Nov-23	IRVINE UNIFIED SCHOOL DISTRICT	410.83	IRWD Wells Fargo Check No Print	Reconciled
439524	16-Nov-23	JOSE MARTINEZ TREE SERVICE INC.	29,100.00	IRWD Wells Fargo Check No Print	Reconciled
439525	16-Nov-23	KADWADKAR, VAIBHAV	384.46	IRWD Wells Fargo Check No Print	Reconciled
439526	16-Nov-23	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	5,870.00	IRWD Wells Fargo Check No Print	Negotiable
439527	16-Nov-23	KIMBALL MIDWEST	245.99	IRWD Wells Fargo Check No Print	Reconciled
439528	16-Nov-23	LABELLE-MARVIN INC	6,425.00	IRWD Wells Fargo Check No Print	Reconciled
439529	16-Nov-23	LARA, JORGE	57.95	IRWD Wells Fargo Check No Print	Negotiable
439530	16-Nov-23	LEIGHTON CONSULTING, INC.	2,718.33	IRWD Wells Fargo Check No Print	Reconciled
439531	16-Nov-23	LI, TING	55.57	IRWD Wells Fargo Check No Print	Negotiable
439532	16-Nov-23	LINDE GAS & EQUIPMENT INC.	12,908.44	IRWD Wells Fargo Check No Print	Reconciled
439533	16-Nov-23	LINE-X OF SOUTH COAST	1,074.00	IRWD Wells Fargo Check No Print	Reconciled
439534	16-Nov-23	LOZANO SMITH, LLP	315.00	IRWD Wells Fargo Check No Print	Reconciled
439535	16-Nov-23	MARK THOMAS & COMPANY, INC.	8,230.82	IRWD Wells Fargo Check No Print	Reconciled
439536	16-Nov-23	MC FADDEN-DALE INDUSTRIAL	423.89	IRWD Wells Fargo Check No Print	Reconciled
439537	16-Nov-23	MC MASTER CARR SUPPLY CO	45.48	IRWD Wells Fargo Check No Print	Reconciled
439538	16-Nov-23	MCBAIN SYSTEMS LP	585.00	IRWD Wells Fargo Check No Print	Reconciled
439539	16-Nov-23	MICROSOFT CORPORATION	24.00	IRWD Wells Fargo Check No Print	Reconciled
439540	16-Nov-23	MILES CHEMICAL COMPANY, INC.	12,367.34	IRWD Wells Fargo Check No Print	Negotiable
439541	16-Nov-23	MONTROSE ENVIRONMENTAL GROUP, INC.	3,650.00	IRWD Wells Fargo Check No Print	Reconciled
439542	16-Nov-23	MORSCO SUPPLY, LLC	1,060.06	IRWD Wells Fargo Check No Print	Reconciled
439543	16-Nov-23	MUTUAL PROPANE	141.01	IRWD Wells Fargo Check No Print	Reconciled
439544	16-Nov-23	NATIONAL OILWELL VARCO, L.P.	5,950.62	IRWD Wells Fargo Check No Print	Reconciled
439545	16-Nov-23	NMG GEOTECHNICAL INC	4,430.00	IRWD Wells Fargo Check No Print	Reconciled

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ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
439546	16-Nov-23	NRD, LLC	100.00	IRWD Wells Fargo Check No Print	Reconciled
439547	16-Nov-23	O'REILLY AUTO ENTERPRISES, LLC	122.77	IRWD Wells Fargo Check No Print	Reconciled
439548	16-Nov-23	OCTA	680.00	IRWD Wells Fargo Check No Print	Reconciled
439549	16-Nov-23	OH, JAE	27.44	IRWD Wells Fargo Check No Print	Negotiable
439550	16-Nov-23	ONESOURCE DISTRIBUTORS LLC	1,215.41	IRWD Wells Fargo Check No Print	Reconciled
439551	16-Nov-23	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	3,011.30	IRWD Wells Fargo Check No Print	Reconciled
439552	16-Nov-23	PACIFIC HYDROTECH CORPORATION	928,977.35	IRWD Wells Fargo Check No Print	Reconciled
439553	16-Nov-23	PACIFIC HYDROTECH CORPORATION	28,971.71	IRWD Wells Fargo Check No Print	Reconciled
439554	16-Nov-23	PACIFIC HYDROTECH CORPORATION	5,186.93	IRWD Wells Fargo Check No Print	Reconciled
439555	16-Nov-23	PACIFIC HYDROTECH CORPORATION	14,734.90	IRWD Wells Fargo Check No Print	Reconciled
439556	16-Nov-23	PENN ARCHIVE SERVICES	93.76	IRWD Wells Fargo Check No Print	Reconciled
439557	16-Nov-23	POLLARDWATER.COM	2,424.32	IRWD Wells Fargo Check No Print	Reconciled
439558	16-Nov-23	PROMOCHROM TECHNOLOGIES LTD.	1,750.00	IRWD Wells Fargo Check No Print	Negotiable
439559	16-Nov-23	PRUDENTIAL OVERALL SUPPLY	322.00	IRWD Wells Fargo Check No Print	Reconciled
439560	16-Nov-23	PSOMAS	18,606.50	IRWD Wells Fargo Check No Print	Reconciled
439561	16-Nov-23	R C FOSTER CORPORATION	477,805.38	IRWD Wells Fargo Check No Print	Reconciled
439562	16-Nov-23	RENTOKIL NORTH AMERICA, INC	12,089.00	IRWD Wells Fargo Check No Print	Reconciled
439563	16-Nov-23	RICHARD C. SLADE & ASSOCIATES LLC	16,772.93	IRWD Wells Fargo Check No Print	Reconciled
439564	16-Nov-23	ROBERT HALF INC.	8,810.14	IRWD Wells Fargo Check No Print	Reconciled
439565	16-Nov-23	RODEO HOMES INC	1,653.54	IRWD Wells Fargo Check No Print	Negotiable
439566	16-Nov-23	RS HUGHES COMPANY, INC.	196.86	IRWD Wells Fargo Check No Print	Reconciled
439567	16-Nov-23	SAFETY-KLEEN SYSTEMS, INC	343.00	IRWD Wells Fargo Check No Print	Reconciled
439568	16-Nov-23	SAMUDRO, STEPHANIE	22.91	IRWD Wells Fargo Check No Print	Negotiable
439569	16-Nov-23	SANTA MARGARITA FORD	545.14	IRWD Wells Fargo Check No Print	Reconciled
439570	16-Nov-23	SCALETRON INDUSTRIES LTD	12,345.28	IRWD Wells Fargo Check No Print	Reconciled
439571	16-Nov-23	SCHALLER, JENIFER	93.81	IRWD Wells Fargo Check No Print	Reconciled
439572 439573	16-Nov-23 16-Nov-23	SERRANO WATER DISTRICT SHAMROCK SUPPLY CO INC	6,596.07 86.33	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
			120,571.30	_	
439574 439575	16-Nov-23 16-Nov-23	SHIMMICK CONSTRUCTION INC. SHON, BARBARA	234.75	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Reconciled Reconciled
439576	16-Nov-23	SIGN MART / PLASTIC PLUS	50.74	IRWD Wells Fargo Check No Print	Reconciled
439577	16-Nov-23	SOUTH BAY FOUNDRY, INC	10,694.15	IRWD Wells Fargo Check No Print	Reconciled
439578	16-Nov-23	SOUTH COAST WATER CO.	95.00	IRWD Wells Fargo Check No Print	Reconciled
439579	16-Nov-23	SOUTH COAST WATER DISTRICT	1,127.67	IRWD Wells Fargo Check No Print	Reconciled
439580	16-Nov-23	SOUTHERN CALIFORNIA EDISON COMPANY	2,475.00	IRWD Wells Fargo Check No Print	Reconciled
439581	16-Nov-23	SOUTHERN CALIFORNIA EDISON COMPANY	33,481.20	IRWD Wells Fargo Check No Print	Reconciled
439582	16-Nov-23	SOUTHERN CALIFORNIA GAS COMPANY	10,956.88	IRWD Wells Fargo Check No Print	Reconciled
439583	16-Nov-23	SOUTHWESTERN INDUSTRIES, INC.	103,239.45	IRWD Wells Fargo Check No Print	Reconciled
439584	16-Nov-23	SPARKLETTS	147.40	IRWD Wells Fargo Check No Print	Reconciled
439585	16-Nov-23	STANFORD COURT APARTMENTS	344.68	IRWD Wells Fargo Check No Print	Negotiable
439586	16-Nov-23	STANTEC CONSULTING SERVICES INC.	3,418.50	IRWD Wells Fargo Check No Print	Reconciled
439587	16-Nov-23	STEVEN WELCH	245.00	IRWD Wells Fargo Check No Print	Reconciled
439588	16-Nov-23	STICE COMPANY, INC.	1,287.39	IRWD Wells Fargo Check No Print	Reconciled
439589	16-Nov-23	STRADLING YOCCA CARLSON & RAUTH	200.00	IRWD Wells Fargo Check No Print	Reconciled
439590	16-Nov-23	TAIT ENVIRONMENTAL SERVICES, INC.	948.75	IRWD Wells Fargo Check No Print	Reconciled
439591	16-Nov-23	TALLEY INC	659.58	IRWD Wells Fargo Check No Print	Reconciled
439592	16-Nov-23	TANKVISIONS, INC	30.00	IRWD Wells Fargo Check No Print	Reconciled
439593	16-Nov-23	TEKDRAULICS	834.70	IRWD Wells Fargo Check No Print	Reconciled
439594	16-Nov-23	THE IRVINE COMPANY LLC	69.42	IRWD Wells Fargo Check No Print	Negotiable
439595	16-Nov-23	TIERRA VERDE INDUSTRIES	145.46	IRWD Wells Fargo Check No Print	Reconciled
439596	16-Nov-23	TIME ACCESS SYSTEMS INC.	8,382.00	IRWD Wells Fargo Check No Print	Negotiable
439597	16-Nov-23	TOLL BROS., INC.	27.95	IRWD Wells Fargo Check No Print	Reconciled
439598	16-Nov-23	TROPICAL PLAZA NURSERY INC	10,959.05	IRWD Wells Fargo Check No Print	Reconciled
439599	16-Nov-23	UNITED PARCEL SERVICE INC	191.45	IRWD Wells Fargo Check No Print	Reconciled
439600	16-Nov-23	UNIVAR SOLUTIONS USA INC.	12,688.20	IRWD Wells Fargo Check No Print	Reconciled
439601	16-Nov-23	VEOLIA WATER TECHNOLOGIES TREATMENT SOLUTIONS USA INC.	5,282.89	IRWD Wells Fargo Check No Print	Reconciled
439602	16-Nov-23	VISTA PAINT CORPORATION	755.89	IRWD Wells Fargo Check No Print	Reconciled
439603	16-Nov-23	VWR INTERNATIONAL, LLC	1,288.86	IRWD Wells Fargo Check No Print	Reconciled
439604	16-Nov-23	WALTERS WHOLESALE ELECTRIC	51.87	IRWD Wells Fargo Check No Print	Reconciled
439605	16-Nov-23	WANG, XIN	5.29	IRWD Wells Fargo Check No Print	Reconciled
439606	16-Nov-23	WASTE MANAGEMENT COLLECTIONS AND RECYCLING, INC.	6,645.37	IRWD Wells Fargo Check No Print	Reconciled
439607	16-Nov-23	WATERLINE TECHNOLOGIES INC	1,772.28	IRWD Wells Fargo Check No Print	Reconciled
439608	16-Nov-23	WAXIE'S ENTERPRISES, INC	1,694.21	IRWD Wells Fargo Check No Print	Reconciled
439609	16-Nov-23	WEST COAST SAND & GRAVEL INC.	1,490.89	IRWD Wells Fargo Check No Print	Reconciled
439610	16-Nov-23	WEST YOST & ASSOCIATES, INC.	2,186.25	IRWD Wells Fargo Check No Print	Reconciled
439611	16-Nov-23	WESTERN OILFIELDS SUPPLY COMPANY	1,397.51	IRWD Wells Fargo Check No Print	Reconciled
439612	16-Nov-23	XUE, XIAOLU	46.14	IRWD Wells Fargo Check No Print	Negotiable
439613	16-Nov-23	YSI, INC	14,820.89	IRWD Wells Fargo Check No Print	Reconciled
439614	16-Nov-23	ZHANG, YUHAO	810.89	IRWD Wells Fargo Check No Print	Reconciled
439615	16-Nov-23	ZIMA CORPORATION	1,014.81	IRWD Wells Fargo Check No Print	Reconciled
439616	16-Nov-23	COUNTY OF ORANGE	50,386.70	IRWD Wells Fargo Check	Negotiable
439617	16-Nov-23	IRVINE UNIFIED SCHOOL DISTRICT	1,257.00	IRWD Wells Fargo Check	Reconciled
439618	20-Nov-23	CITY OF LAKE FOREST	4,415.59	IRWD Wells Fargo Check	Reconciled
439619	22-Nov-23	Soto, Franklin E (Frank)	250.00	IRWD Wells Fargo Check	Negotiable
42002	22-Nov-23	INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 47	6,149.31	IRWD Wells Fargo Check	Negotiable
439620	22 1107 23	D - 5	5,2 15152	Tital Wells Fulgo Check	

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ADDITION OF THE ACT	CHECK OR ELECTRONIC #	PAYMENT DATE	CURRUTES	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
499622 22 Prom. 22 PORTO-SELEX SUDDIES 1,300.00						
49925 25-No-22 ADMINISTRATION OFFICE 3,370.00 8000 Works Fage Clock to Print Megalizable May 1,400 1,400						
48962 30 No24 AND DESTRUCTION 1,24.2.2.3 8900 weble samp Clocks. To Print Negotiable 1,24.2.3 8900 weble samp Clocks. To Print Negotiable					_	
4990.5 30 No.923 ADC DOSES INC. 4900.7 50 No.923 ADD SERVING CONTROLLED TO MONEYOD TO A CONTROLLED TO A CO				•	· ·	-
499625 30-No-23 AMSC, IRC 120-No-21 AMSC, IR					•	-
499673 30.06-0-73 ARIGAS, INC. 12.027.8 19.070 Wells Flange Cheek No Print Negotiable 19.08-0-73 ARIGAS, INC. 12.027.8 19.070 Wells Flange Cheek No Print Negotiable 19.08-0-73 ARIGAS (No. 19.08-19					S	•
4996-82 30-Nov-23 ALTON COMPONED & CLAUDE NEW Mode 1900-20 4900-20 30-Nov-23 ALTON COMPONED NEW NEW Mode 1900-20 4900-20 30-Nov-23 AUTON COMPONED NEW NEW Mode 1900-20 4900-20 30-Nov-23 AUTON COMPONED NEW NEW Mode 1900-20 4900-20 30-Nov-23 AUTON COMPONED NEW						-
499602 30-30-23 AMERICAN TRANSPORT COMPANY INC. 5,788.00 BIVOV Wells Frage Check No Print Negotiable 490611 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490612 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490614 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490605 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT SECURIC NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN TRANSPORT NO. 1,000.00 BIVOV Wells Frage Check No Print Negotiable 490607 20 Nov-23 AMERICAN T					_	-
ADMINISTRATION RESIDURES, INC. A.988.00 SWAD Well's Farge Check No Print Negetiable					_	-
A98613 35 A-No-23 AMEZEK BROOMFELD 1,550 00 BWOV Wells Faging Check No Frint No. Negotiable					_	-
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489634 30 Abov. 24 APCINCTAN IL ALESSIN 1.586.175 1.586.				,	-	-
496543 30 Nov. 24 APECANTIA GROUP RIC 1,881.75 NOV. World Fargor Check No Print Negotiable 1,986.75 30 Nov. 224 ARCORGAST PRODUCTS COMPANY 1,980.04 NIV. World Fargor Check No Print Negotiable 1,986.75 Nov. 24 ARCORGAST PRODUCTS COMPANY 1,980.04 NIV. World Fargor Check No Print Negotiable 1,986.75 Nov. 24 ARCORGAST PRODUCTS COMPANY 1,980.04 NIV. World Fargor Check No Print Negotiable Niv. World Fargor Check No				,	-	-
439613 30-Nov-22 APPLIED INDUSTRIAL TECHNOLOGIST -CALLE 511.51 18/00 Wesl's Fargo Check, No Print, Negolitable (1992) 30-Nov-22 ATTA CORP 5.23 18/00 Wesl's Fargo Check, No Print, Negolitable (1992) 478.51 4		30-Nov-23			•	-
4399-58 30-Nov-23 ARMONICAST PRODUCTS COMPANY 19.18 18.09		30-Nov-23	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC			-
439638 30 Nov-23 ATS CORP 439690 30 Nov-23 ATS CORP 439691 30 Nov-23 ATS CORP 439692 30 Nov-23 AUTOCORP PATS, INC 439692 30 Nov-23 BACCEST METER INC 439693 30 Nov-23 BACCEST METER INC 439694 30 Nov-23 BACCEST METER INC 439694 30 Nov-23 BACCEST METER INC 439694 30 Nov-23 BORNARD STATES AND	439636	30-Nov-23	ARMORCAST PRODUCTS COMPANY	19,180.04	_	-
439640 30 Nov-27 ATTECTORP 23 0070 RWD Weels Fargo Cheek No Print Negotiable 439640 30 Nov-27 ATTECTOR 25 18 Nov-27 ATTECTOR	439637	30-Nov-23	AT&T CORP	62.38	IRWD Wells Fargo Check No Print	Negotiable
439640 30 Nov.27	439638	30-Nov-23	AT&T CORP	12,753.89	IRWD Wells Fargo Check No Print	Negotiable
439642 30 Nov-23 30 Nov-	439639	30-Nov-23	AT&T CORP	230.07	IRWD Wells Fargo Check No Print	Negotiable
439642 30 Now-23	439640	30-Nov-23	AUTOZONE PARTS, INC.	976.92	IRWD Wells Fargo Check No Print	Negotiable
439643 30-Nov-23 30-Nov-	439641	30-Nov-23	B & H PHOTO VIDEO	2,158.92	IRWD Wells Fargo Check No Print	Negotiable
439644 30-Nov-23 30-Nov-	439642	30-Nov-23	BADGER METER INC.	139,153.69	IRWD Wells Fargo Check No Print	Negotiable
439645 30 Nov-22	439643	30-Nov-23	BANK OF NEW YORK MELLON TRUST COMPANY NA	1,650.00	IRWD Wells Fargo Check No Print	Negotiable
439646 30 Nov-23 BOTOMICY, NONALD C 8.83 IRVD Wells Fargo Check No Frint Regotable 439648 30 Nov-23 BOTOMICY, NONALD C 45.44 IRVD Wells Fargo Check No Frint Regotable 439650 30 Nov-23 CHELS PIPELIN REMIREDIS INC 7.98.83 IRVD Wells Fargo Check No Frint Regotable 439651 30 Nov-23 CHELS PIPELIN REMIREDIS INC 7.98.83 IRVD Wells Fargo Check No Frint Regotable 439652 30 Nov-23 CHELS PIPELIN REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439653 30 Nov-23 CHELS PIPELIN REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439654 30 Nov-23 CHELS PIPELIN REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439654 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439656 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439658 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439658 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439669 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439669 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439669 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439669 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439669 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439669 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439669 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439669 30 Nov-23 CHERONA BARK REMIREDIS INC 7.99.29 IRVD Wells Fargo Check No Frint Regotable 439669 30 Nov-23 CHERONA BARK REMIREDIS IN	439644	30-Nov-23	BIOTAGE LLC	6,196.70	IRWD Wells Fargo Check No Print	Negotiable
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439695 30-Nov-23 FRONTIER CALIFORNIA INC. 628.47 IRWD Wells Fargo Check No Print Negotiable	439694	30-Nov-23	FOOTHILL/EASTERN TRANSPORTATION	9,300.00	IRWD Wells Fargo Check No Print	Negotiable
	439695	30-Nov-23	FRONTIER CALIFORNIA INC.	628.47	IRWD Wells Fargo Check No Print	Negotiable

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CHECK OR	PAYMENT	CURRUSE	PAYMENT	DAVMENT METHOD	CTATUC
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
439696	30-Nov-23	GEA MECHANICAL EQUIPMENT US, INC.	10,260.71	IRWD Wells Fargo Check No Print	Negotiable
439697	30-Nov-23	GHD INC.	15,380.50	IRWD Wells Fargo Check No Print	Negotiable
439698	30-Nov-23	GRAINGER CRAYBAR FLECTRIC COMPANY	7,666.46	IRWD Wells Fargo Check No Print	Negotiable
439699 439700	30-Nov-23 30-Nov-23	GRAYBAR ELECTRIC COMPANY GRIFFITH COMPANY	353.47 456.95	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
439700	30-Nov-23	GSRP ST SOLAR I LLC	456.95 12,474.62	IRWD Wells Fargo Check No Print	Negotiable
439701	30-Nov-23	HACH COMPANY	5,311.10	IRWD Wells Fargo Check No Print	Negotiable
439703	30-Nov-23	HAMILTON, KURT	826.72	IRWD Wells Fargo Check No Print	Negotiable
439704	30-Nov-23	HARDY & HARPER, INC.	23,730.00	IRWD Wells Fargo Check No Print	Negotiable
439705	30-Nov-23	HDR ENGINEERING INC	29,331.25	IRWD Wells Fargo Check No Print	Negotiable
439706	30-Nov-23	HEALTH SCIENCE ASSOCIATES, INC.	13,209.50	IRWD Wells Fargo Check No Print	Negotiable
439707	30-Nov-23	HI-LINE INC	693.20	IRWD Wells Fargo Check No Print	Negotiable
439708	30-Nov-23	HOLDEN, MARLON	79.21	IRWD Wells Fargo Check No Print	Negotiable
439709	30-Nov-23	HOLLIDAY, KEITH	83.09	IRWD Wells Fargo Check No Print	Negotiable
439710	30-Nov-23	HOME DEPOT USA INC	1,094.10	IRWD Wells Fargo Check No Print	Negotiable
439711	30-Nov-23	HOME DEPOT USA INC	1,371.12	IRWD Wells Fargo Check No Print	Negotiable
439712	30-Nov-23	HOYA OPTICAL LABS OF AMERICA, INC.	211.00	IRWD Wells Fargo Check No Print	Negotiable
439713	30-Nov-23	IMPERIAL SPRINKLER SUPPLY, INC.	695.54	IRWD Wells Fargo Check No Print	Negotiable
439714	30-Nov-23	INNOVATIVE CONSTRUCTION SOLUTIONS	449,086.20	IRWD Wells Fargo Check No Print	Negotiable
439715	30-Nov-23	INTERPRO SOLUTIONS, LLC.	12,600.00	IRWD Wells Fargo Check No Print	Negotiable
439716	30-Nov-23	IRVINE COMPANY APARTMENT DEVELOPMENT	1,617.56	IRWD Wells Fargo Check No Print	Negotiable
439717	30-Nov-23	JL GROUP, LLC	21,079.77	IRWD Wells Fargo Check No Print	Negotiable
439718	30-Nov-23	JOHNSON-FRANK & ASSOCIATES, INC.	4,735.00	IRWD Wells Fargo Check No Print	Negotiable
439719	30-Nov-23	JONES, AMY	113.30	IRWD Wells Fargo Check No Print	Negotiable
439720	30-Nov-23	JOSE MARTINEZ TREE SERVICE INC.	6,500.00	IRWD Wells Fargo Check No Print	Negotiable
439721	30-Nov-23	JUST ENERGY SOLUTIONS INC.	8.59	IRWD Wells Fargo Check No Print	Reconciled
439722	30-Nov-23	KAESER COMPRESSORS, INC.	742.00	IRWD Wells Fargo Check No Print	Negotiable
439723	30-Nov-23	KDC CONSTRUCTION	1,644.79	IRWD Wells Fargo Check No Print	Negotiable
439724 439725	30-Nov-23 30-Nov-23	KILBY, JOHN KIMBALL MIDWEST	16.84 6,832.92	IRWD Wells Fargo Check No Print	Negotiable
439726	30-Nov-23	KWAK, KYUNG	86.14	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
439727	30-Nov-23	LAMAGNA, TAMI	30.99	IRWD Wells Fargo Check No Print	Negotiable
439728	30-Nov-23	LASHER, JOSEPH	42.02	IRWD Wells Fargo Check No Print	Negotiable
439729	30-Nov-23	LEE & RO, INC.	13,354.50	IRWD Wells Fargo Check No Print	Negotiable
439730	30-Nov-23	LILLESTRAND LEADERSHIP CONSULTING, INC.	13,375.00	IRWD Wells Fargo Check No Print	Negotiable
439731	30-Nov-23	LINDE GAS & EQUIPMENT INC.	6,629.84	IRWD Wells Fargo Check No Print	Negotiable
439732	30-Nov-23	LINKEDIN CORPORATION	19,875.00	IRWD Wells Fargo Check No Print	Negotiable
439733	30-Nov-23	LINKS MEDICAL PRODUCTS INC	58.17	IRWD Wells Fargo Check No Print	Negotiable
439734	30-Nov-23	LIU, PU	499.57	IRWD Wells Fargo Check No Print	Negotiable
439735	30-Nov-23	LIU, XIUZHI	36.68	IRWD Wells Fargo Check No Print	Negotiable
439736	30-Nov-23	MA, ZHENGUO	26.35	IRWD Wells Fargo Check No Print	Reconciled
439737	30-Nov-23	MC FADDEN-DALE INDUSTRIAL	558.65	IRWD Wells Fargo Check No Print	Negotiable
439738	30-Nov-23	MC MASTER CARR SUPPLY CO	2,540.48	IRWD Wells Fargo Check No Print	Negotiable
439739	30-Nov-23	MCCLAINS FURNITURE	1,200.00	IRWD Wells Fargo Check No Print	Negotiable
439740	30-Nov-23	MICHAEL K. NUNLEY & ASSOCIATES, INC.	2,454.25	IRWD Wells Fargo Check No Print	Negotiable
439741	30-Nov-23	MICROSOFT CORPORATION	500.72	IRWD Wells Fargo Check No Print	Reconciled
439742	30-Nov-23	MIK CONSTRUCTION INC.	1,352.58	IRWD Wells Fargo Check No Print	Negotiable
439743	30-Nov-23	MISSION COMMUNICATIONS, LLC	6,364.80	IRWD Wells Fargo Check No Print	Negotiable
439744	30-Nov-23	MORSCO SUPPLY, LLC	1,534.65	IRWD Wells Fargo Check No Print	Negotiable
439745	30-Nov-23	MSC INDUSTRIAL SUPPLY CO	2,183.15	IRWD Wells Fargo Check No Print	Negotiable
439746	30-Nov-23	MUTUAL PROPANE	32.19	IRWD Wells Fargo Check No Print	Negotiable
439747	30-Nov-23	NATIONAL READY MIXED CONCRETE SALES, LLC	1,589.34	IRWD Wells Fargo Check No Print	Negotiable
439748	30-Nov-23	NEW RESOURCES GROUP INC	41.30 23.90	IRWD Wells Fargo Check No Print	Negotiable Negotiable
439749 439750	30-Nov-23 30-Nov-23	NGUYEN, NICHOLAS NORIMA CONSULTING US	14,430.00	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
439751	30-Nov-23	O'REILLY AUTO ENTERPRISES, LLC	14,430.00 399.74	IRWD Wells Fargo Check No Print	Negotiable
439752	30-Nov-23	ONESOURCE DISTRIBUTORS LLC	8,852.06	IRWD Wells Fargo Check No Print	Negotiable
439753	30-Nov-23	ORACLE AMERICA, INC.	1,698.69	IRWD Wells Fargo Check No Print	Negotiable
439754	30-Nov-23	ORANGE COUNTY TREASURER	509.00	IRWD Wells Fargo Check No Print	Negotiable
439755	30-Nov-23	PACIFIC HYDROTECH CORPORATION	12,523.11	IRWD Wells Fargo Check No Print	Negotiable
439756	30-Nov-23	PACIFIC HYDROTECH CORPORATION	1,573,892.92	IRWD Wells Fargo Check No Print	Negotiable
439757	30-Nov-23	PACIFIC HYDROTECH CORPORATION	50,072.18	IRWD Wells Fargo Check No Print	Negotiable
439758	30-Nov-23	PACIFIC HYDROTECH CORPORATION	20,241.18	IRWD Wells Fargo Check No Print	Negotiable
439759	30-Nov-23	PAYMENTUS CORPORATION	71,361.43	IRWD Wells Fargo Check No Print	Negotiable
439760	30-Nov-23	PEAK SCIENTIFIC, INC	6,104.67	IRWD Wells Fargo Check No Print	Negotiable
439761	30-Nov-23	PETERSON, PAIGE	416.64	IRWD Wells Fargo Check No Print	Negotiable
439762	30-Nov-23	PINNACLE TOWERS LLC	876.47	IRWD Wells Fargo Check No Print	Negotiable
439763	30-Nov-23	PORTRAIT CONSTRUCTION, INC.	1,466.67	IRWD Wells Fargo Check No Print	Negotiable
439764	30-Nov-23	PREMIER PAVING INC.	1,698.18	IRWD Wells Fargo Check No Print	Reconciled
439765	30-Nov-23	PREMIER PAVING INC.	1,287.36	IRWD Wells Fargo Check No Print	Reconciled
439766	30-Nov-23	QUADIENT FINANCE USA, INC.	1,000.00	IRWD Wells Fargo Check No Print	Negotiable
439767	30-Nov-23	R C FOSTER CORPORATION	201,590.00	IRWD Wells Fargo Check No Print	Negotiable
439768	30-Nov-23	R.F. MACDONALD CO.	6,614.18	IRWD Wells Fargo Check No Print	Negotiable
439769	30-Nov-23	REAL WATER CONSULTANTS INC.	15,010.00	IRWD Wells Fargo Check No Print	Negotiable
439770	30-Nov-23	REFRIGERATION SUPPLIES DISTRIBUTOR	242.44	IRWD Wells Fargo Check No Print	Reconciled
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CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
439771	30-Nov-23	RENTOKIL NORTH AMERICA, INC	4,632.05	IRWD Wells Fargo Check No Print	Negotiable
439772	30-Nov-23	RICHARD C. SLADE & ASSOCIATES LLC	16,004.35 6,719.78	IRWD Wells Fargo Check No Print	Negotiable
439773 439774	30-Nov-23 30-Nov-23	ROBERT HALF INC. SANTA MARGARITA FORD	195.75	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
439775	30-Nov-23	SECURITAS SECURITY SERVICES USA, INC.	84,855.73	IRWD Wells Fargo Check No Print	Negotiable
439776	30-Nov-23	SERVERSUPPLY.COM INC	9,989.29	IRWD Wells Fargo Check No Print	Negotiable
439777	30-Nov-23	SHAH, DISHA	1,002.25	IRWD Wells Fargo Check No Print	Negotiable
439778	30-Nov-23	SHIMMICK CONSTRUCTION INC.	88,768.00	IRWD Wells Fargo Check No Print	Negotiable
439779	30-Nov-23	SHOETERIA	139.67	IRWD Wells Fargo Check No Print	Negotiable
439780	30-Nov-23	SMOG TIME	146.50	IRWD Wells Fargo Check No Print	Negotiable
439781	30-Nov-23	SNYDER LANGSTON L.P.	1,314.97	IRWD Wells Fargo Check No Print	Reconciled
439782	30-Nov-23	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	1,835.43	IRWD Wells Fargo Check No Print	Negotiable
439783	30-Nov-23 30-Nov-23	SOUTH COAST WATER DISTRICT	808.57 474,990.53	IRWD Wells Fargo Check No Print	Negotiable
439784 439785	30-Nov-23	SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN CALIFORNIA EDISON COMPANY	474,990.53 86.23	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
439786	30-Nov-23	SOUTHERN CALIFORNIA GAS COMPANY	129,230.93	IRWD Wells Fargo Check No Print	Negotiable
439787	30-Nov-23	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.	122.20	IRWD Wells Fargo Check No Print	Negotiable
439788	30-Nov-23	SOUTHERN COUNTIES LUBRICANTS LLC	11,431.97	IRWD Wells Fargo Check No Print	Negotiable
439789	30-Nov-23	SOUTHWEST VALVE & EQUIPMENT LLC	4,919.71	IRWD Wells Fargo Check No Print	Negotiable
439790	30-Nov-23	SPEAR, STEVEN	35.04	IRWD Wells Fargo Check No Print	Negotiable
439791	30-Nov-23	STACH, KYLA	43.93	IRWD Wells Fargo Check No Print	Negotiable
439792	30-Nov-23	STORM WATER INSPECTION & MAINTENANCE SERVICES, INC	2,068.00	IRWD Wells Fargo Check No Print	Negotiable
439793	30-Nov-23	SUPERIOR ELECTRIC MOTOR SERVICE, INC.	5,978.82	IRWD Wells Fargo Check No Print	Negotiable
439794	30-Nov-23	SURF CITY OPTOMETRY	225.00	IRWD Wells Fargo Check No Print	Negotiable
439795	30-Nov-23	SUZANNA CHOI	10,000.00	IRWD Wells Fargo Check No Print	Negotiable
439796 439797	30-Nov-23 30-Nov-23	TAIT ENVIRONMENTAL SERVICES, INC. TASSIN SCIENTIFIC SERVICES, LLC.	420.00 394.11	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
439798	30-Nov-23	TEKDRAULICS	8,623.17	IRWD Wells Fargo Check No Print	Negotiable
439799	30-Nov-23	TELEDYNE INSTRUMENTS, INC.	8,978.00	IRWD Wells Fargo Check No Print	Negotiable
439800	30-Nov-23	TK ELEVATOR CORPORATION	226.02	IRWD Wells Fargo Check No Print	Negotiable
439801	30-Nov-23	TOP TEN REAL ESTATE INC	68.74	IRWD Wells Fargo Check No Print	Negotiable
439802	30-Nov-23	TRI COUNTY PUMP COMPANY	24,366.76	IRWD Wells Fargo Check No Print	Negotiable
439803	30-Nov-23	TRI POINTE HOMES HOLDINGS, INC.	1,348.47	IRWD Wells Fargo Check No Print	Negotiable
439804	30-Nov-23	TRIPAC MARKETING INC	1,124.82	IRWD Wells Fargo Check No Print	Negotiable
439805	30-Nov-23	TRUSSELL TECHNOLOGIES, INC.	19,413.50	IRWD Wells Fargo Check No Print	Negotiable
439806	30-Nov-23	UNITED PARCEL SERVICE INC	72.60	IRWD Wells Fargo Check No Print	Negotiable
439807	30-Nov-23	UNITED SITE SERVICES OF CALIFORNIA INC	1,194.09	IRWD Wells Fargo Check No Print	Negotiable
439808	30-Nov-23 30-Nov-23	UNIVAR SOLUTIONS USA INC. USA WASTE OF CALIFORNIA, INC.	12,790.80 660.92	IRWD Wells Fargo Check No Print	Negotiable
439809 439810	30-Nov-23	VELOCITY DYNAMICS, LLC	8,594.14	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
439811	30-Nov-23	VENTURE ONE HOLDINGS, LLC	23.18	IRWD Wells Fargo Check No Print	Negotiable
439812	30-Nov-23	VEOLIA NORTH AMERICA, INC.	7,254.67	IRWD Wells Fargo Check No Print	Negotiable
439813	30-Nov-23	VERIZON WIRELESS SERVICES LLC	18,805.69	IRWD Wells Fargo Check No Print	Negotiable
439814	30-Nov-23	VISTA PAINT CORPORATION	1,933.25	IRWD Wells Fargo Check No Print	Negotiable
439815	30-Nov-23	VULCAN MATERIALS COMPANY	2,144.76	IRWD Wells Fargo Check No Print	Negotiable
439816	30-Nov-23	VWR INTERNATIONAL, LLC	620.07	IRWD Wells Fargo Check No Print	Negotiable
439817	30-Nov-23	WARD, WILLIAM P JR.	1,386.28	IRWD Wells Fargo Check No Print	Negotiable
439818	30-Nov-23	WATERLINE TECHNOLOGIES INC	2,293.60	IRWD Wells Fargo Check No Print	Negotiable
439819	30-Nov-23	WAXIE'S ENTERPRISES, INC	2,100.67	IRWD Wells Fargo Check No Print	Negotiable
439820 439821	30-Nov-23	WEST COAST SAND & GRAVEL INC.	7,897.03	IRWD Wells Fargo Check No Print	Negotiable
439821	30-Nov-23 30-Nov-23	WEST YOST & ASSOCIATES, INC. XYLEM WATER SOLUTIONS USA, INC.	24,270.00 48.79	IRWD Wells Fargo Check No Print IRWD Wells Fargo Check No Print	Negotiable Negotiable
439823	30-Nov-23	ZEBRON CONTRACTING INC	54,575.00	IRWD Wells Fargo Check No Print	Negotiable
439824	30-Nov-23	ZHANG, DONGBIN	43.00	IRWD Wells Fargo Check No Print	Negotiable
439825	30-Nov-23	ANTHEM BLUE CROSS	306.93	IRWD Wells Fargo Check	Negotiable
439826	30-Nov-23	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE	6,236.00	IRWD Wells Fargo Check	Negotiable
439827	30-Nov-23	CALIFORNIA DEPT OF PUBLIC HEALTH	619.00	IRWD Wells Fargo Check	Negotiable
439828	30-Nov-23	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	29.46	IRWD Wells Fargo Check	Negotiable
439829	30-Nov-23	COUNTY OF ORANGE	41,478.49	IRWD Wells Fargo Check No Print	Negotiable
SUB-TOTAL IRWD	WELLS FARGO	CHECK AND IRWD WELLS FARGO CHECK NO PRINT DISBURSEMENTS	11,642,818.30		
1001005			4 004 70	151115 11 H 5	- " '
1001896	2-Nov-23	AMAZON CAPITAL SERVICES, INC.	1,394.78	IRWD Wells Fargo ACH	Reconciled
1001897 1001898	2-Nov-23 2-Nov-23	CALIFORNIA BARRICADE RENTAL, INC. CDW GOVERNMENT LLC	24,621.90 3,272.32	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1001898	2-Nov-23 2-Nov-23	CITY OF IRVINE	3,272.32 10,121.60	IRWD Wells Fargo ACH	Reconciled
1001899	2-Nov-23 2-Nov-23	COOMBS SERVICE GROUP	85,325.00	IRWD Wells Fargo ACH	Reconciled
1001901	2-Nov-23	DRAKE TRAFFIC CONTROL SERVICES INC	5,180.00	IRWD Wells Fargo ACH	Reconciled
1001902	2-Nov-23	EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.	1,753.50	IRWD Wells Fargo ACH	Reconciled
1001903	2-Nov-23	GANAHL LUMBER CO.	90.48	IRWD Wells Fargo ACH	Reconciled
1001904	2-Nov-23	HAAKER EQUIPMENT COMPANY	983.65	IRWD Wells Fargo ACH	Reconciled
1001905	2-Nov-23	HILL BROTHERS CHEMICAL COMPANY	15,479.96	IRWD Wells Fargo ACH	Reconciled
1001906	2-Nov-23	LANDCARE HOLDINGS, INC.	10,211.00	IRWD Wells Fargo ACH	Reconciled
1001907	2-Nov-23	MERRIMAC PETROLEUM, INC.	33,392.50	IRWD Wells Fargo ACH	Reconciled
1001908	2-Nov-23	MICHAEL BAKER INTERNATIONAL, INC.	9,939.54	IRWD Wells Fargo ACH	Reconciled
1001909	2-Nov-23	MORGAN COMPANY	38.75	IRWD Wells Fargo ACH	Reconciled

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CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
1001910	2-Nov-23	OLIN CORPORATION	33,733.30	IRWD Wells Fargo ACH	Reconciled
1001911	2-Nov-23	ORANGE COUNTY AUTO PARTS CO	52.98	IRWD Wells Fargo ACH	Reconciled
1001912	2-Nov-23	PACIFIC PARTS & CONTROLS INC	2,532.52	IRWD Wells Fargo ACH	Reconciled
1001913	2-Nov-23	RAM AIR ENGINEERING INC	7,496.63	IRWD Wells Fargo ACH	Reconciled
1001914	2-Nov-23	RELIANCE STANDARD LIFE INSURANCE COMPANY	37,223.36	IRWD Wells Fargo ACH	Reconciled
1001915	2-Nov-23	TOTAL RESOURCE MANAGEMENT, INC	459.50	IRWD Wells Fargo ACH	Reconciled
1001916	2-Nov-23	YORKE ENGINEERING, LLC	612.00	IRWD Wells Fargo ACH	Reconciled
1001944 1001945	9-Nov-23 9-Nov-23	AECOM TECHNICAL SERVICES, INC. ALEXANDER'S CONTRACT SERVICES, INC.	71,963.75 134,081.28	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1001945	9-Nov-23	ASSOCIATION OF CALIFORNIA WATER AGENCIES	47,630.00	IRWD Wells Fargo ACH	Negotiable
1001947	9-Nov-23	BRENNTAG PACIFIC INC	44,976.74	IRWD Wells Fargo ACH	Reconciled
1001948	9-Nov-23	CALIFORNIA BARRICADE RENTAL, INC.	10,659.50	IRWD Wells Fargo ACH	Reconciled
1001949	9-Nov-23	CIMARRON ENERGY, INC	108,959.98	IRWD Wells Fargo ACH	Reconciled
1001950	9-Nov-23	CONSTELLATION NEWENERGY, INC.	19.23	IRWD Wells Fargo ACH	Reconciled
1001951	9-Nov-23	EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.	2,793.00	IRWD Wells Fargo ACH	Reconciled
1001952	9-Nov-23	GANAHL LUMBER CO.	2,324.07	IRWD Wells Fargo ACH	Reconciled
1001953	9-Nov-23	GEOSYNTEC CONSULTANTS, INC.	598.75	IRWD Wells Fargo ACH	Reconciled
1001954	9-Nov-23	HAAKER EQUIPMENT COMPANY	2,127.38	IRWD Wells Fargo ACH	Reconciled
1001955	9-Nov-23	HELPMATES STAFFING SERVICES LLC	8,234.60	IRWD Wells Fargo ACH	Reconciled
1001956	9-Nov-23	HILL BROTHERS CHEMICAL COMPANY	39,763.37	IRWD Wells Fargo ACH	Reconciled
1001957	9-Nov-23	LAGUNA BEACH COUNTY WATER DISTRICT	10,220.43	IRWD Wells Fargo ACH	Reconciled
1001958	9-Nov-23	LANDCARE HOLDINGS, INC.	9,818.00	IRWD Wells Fargo ACH	Reconciled
1001959 1001960	9-Nov-23 9-Nov-23	MERRIMAC PETROLEUM, INC.	4,749.92	IRWD Wells Fargo ACH	Reconciled
1001960	9-Nov-23	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY N1 CRITICAL TECHNOLOGIES, INC	1,244,694.66 7,689.47	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1001961	9-Nov-23	O.C. SUPERIOR CUSTOM CLEANING	4,820.00	IRWD Wells Fargo ACH	Reconciled
1001963	9-Nov-23	OLIN CORPORATION	79,113.87	IRWD Wells Fargo ACH	Reconciled
1001964	9-Nov-23	ORANGE COUNTY AUTO PARTS CO	276.70	IRWD Wells Fargo ACH	Reconciled
1001965	9-Nov-23	PAPER DEPOT DOCUMENT DESTRUCTION LLC	216.00	IRWD Wells Fargo ACH	Reconciled
1001966	9-Nov-23	RAM AIR ENGINEERING INC	1,516.66	IRWD Wells Fargo ACH	Reconciled
1001967	9-Nov-23	RINCON TRUCK CENTER INC.	297.49	IRWD Wells Fargo ACH	Reconciled
1001968	9-Nov-23	WESTAMERICA COMMUNICATIONS, INC.	3,663.35	IRWD Wells Fargo ACH	Reconciled
1001991	16-Nov-23	ADAM'S FALCONRY SERVICE, LLC	2,100.00	IRWD Wells Fargo ACH	Reconciled
1001992	16-Nov-23	AECOM TECHNICAL SERVICES, INC.	8,750.00	IRWD Wells Fargo ACH	Reconciled
1001993	16-Nov-23	ALSTON & BIRD LLP	56,627.30	IRWD Wells Fargo ACH	Negotiable
1001994	16-Nov-23	AMAZON CAPITAL SERVICES, INC.	9,020.85	IRWD Wells Fargo ACH	Reconciled
1001995	16-Nov-23	APPLIED ENGINEERING CONCEPTS	3,250.00	IRWD Wells Fargo ACH	Reconciled
1001996	16-Nov-23	BRENNTAG PACIFIC INC	31,558.80	IRWD Wells Fargo ACH	Reconciled
1001997	16-Nov-23	CALIFORNIA BARRICADE RENTAL, INC.	9,536.00	IRWD Wells Fargo ACH	Reconciled
1001998 1001999	16-Nov-23 16-Nov-23	CAROLLO ENGINEERS, INC CDW GOVERNMENT LLC	14,844.50 344.75	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1001999	16-Nov-23	CENTURY PAVING, INC.	55,243.00	IRWD Wells Fargo ACH	Reconciled
1002001	16-Nov-23	CIMARRON ENERGY, INC	1,500.00	IRWD Wells Fargo ACH	Reconciled
1002002	16-Nov-23	CONSTELLATION NEWENERGY, INC.	108.11	IRWD Wells Fargo ACH	Reconciled
1002003	16-Nov-23	COTTONS POINT DESIGN, INC.	3,573.53	IRWD Wells Fargo ACH	Reconciled
1002004	16-Nov-23	DRAKE TRAFFIC CONTROL SERVICES INC	8,495.00	IRWD Wells Fargo ACH	Reconciled
1002005	16-Nov-23	DUDEK	771.22	IRWD Wells Fargo ACH	Reconciled
1002006	16-Nov-23	E.J. MEYER COMPANY	157,085.18	IRWD Wells Fargo ACH	Negotiable
1002007	16-Nov-23	EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.	719.25	IRWD Wells Fargo ACH	Reconciled
1002008	16-Nov-23	FOUGHT, CYNTHIA J.	3,545.06	IRWD Wells Fargo ACH	Reconciled
1002009	16-Nov-23	GANAHL LUMBER CO.	277.37	IRWD Wells Fargo ACH	Reconciled
1002010	16-Nov-23	HAAKER EQUIPMENT COMPANY	3,393.44	IRWD Wells Fargo ACH	Reconciled
1002011	16-Nov-23	HELPMATES STAFFING SERVICES LLC	4,920.36	IRWD Wells Fargo ACH	Reconciled
1002012	16-Nov-23	LANDCARE HOLDINGS, INC.	143,006.91	IRWD Wells Fargo ACH	Reconciled
1002013	16-Nov-23	LIEBERT CASSIDY WHITMORE	763.50	IRWD Wells Fargo ACH	Reconciled
1002014 1002015	16-Nov-23 16-Nov-23	MCR TECHNOLOGIES INC NV5, INC.	11,999.57 19,720.00	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1002015	16-Nov-23	OLIN CORPORATION	146,806.81	IRWD Wells Fargo ACH	Reconciled
1002017	16-Nov-23	ORANGE COUNTY AUTO PARTS CO	976.20	IRWD Wells Fargo ACH	Reconciled
1002017	16-Nov-23	ORIGIN CONSULTING LLC	12,955.00	IRWD Wells Fargo ACH	Reconciled
1002019	16-Nov-23	PACIFIC PARTS & CONTROLS INC	4,296.84	IRWD Wells Fargo ACH	Reconciled
1002020	16-Nov-23	PAULUS ENGINEERING, INC.	13,515.17	IRWD Wells Fargo ACH	Reconciled
1002021	16-Nov-23	PYRO-COMM SYSTEMS INC	955.00	IRWD Wells Fargo ACH	Reconciled
1002022	16-Nov-23	RAM AIR ENGINEERING INC	8,053.76	IRWD Wells Fargo ACH	Reconciled
1002023	16-Nov-23	RINCON TRUCK CENTER INC.	3,547.27	IRWD Wells Fargo ACH	Reconciled
1002024	16-Nov-23	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	143,201.15	IRWD Wells Fargo ACH	Reconciled
1002025	16-Nov-23	SUNSHINE SUPPLY COMPANY, INC.	2,997.61	IRWD Wells Fargo ACH	Reconciled
1002026	16-Nov-23	TETRA TECH, INC	19,665.00	IRWD Wells Fargo ACH	Reconciled
1002027	16-Nov-23	WATER TREATMENT CHEMICALS INC	20,169.00	IRWD Wells Fargo ACH	Reconciled
1002060	22-Nov-23	JCI JONES CHEMICALS INC	15,364.51	IRWD Wells Fargo ACH	Reconciled
1002061	22-Nov-23	CISCO SYSTEMS, INC.	5,580.00	IRWD Wells Fargo ACH	Reconciled
1002078	30-Nov-23	ACCURATE MEASUREMENT SYSTEMS INC	440.40	IRWD Wells Fargo ACH	Reconciled
1002079	30-Nov-23	AECOM TECHNICAL SERVICES, INC.	505,313.12	IRWD Wells Fargo ACH	Negotiable
1002080	30-Nov-23	ALSTON & BIRD LLP	57,209.60 5.072.44	IRWD Wells Fargo ACH	Reconciled
1002081	30-Nov-23	AMAZON CAPITAL SERVICES, INC.	5,072.44	IRWD Wells Fargo ACH	Reconciled

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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
1002082	30-Nov-23	AMWINS GROUP BENEFITS LLC	3,106.02	IRWD Wells Fargo ACH	Reconciled
1002082	30-Nov-23	ARAG NORTH AMERICA, INC.	506.25	IRWD Wells Fargo ACH	Reconciled
1002084	30-Nov-23	BRENNTAG PACIFIC INC	14,380.75	IRWD Wells Fargo ACH	Reconciled
1002085	30-Nov-23	CALIFORNIA BARRICADE RENTAL, INC.	23,650.24	IRWD Wells Fargo ACH	Reconciled
1002086	30-Nov-23	CDW GOVERNMENT LLC	52,221.84	IRWD Wells Fargo ACH	Reconciled
1002087	30-Nov-23	CITY OF IRVINE	20,718.22	IRWD Wells Fargo ACH	Reconciled
1002088	30-Nov-23	COASTAL OCCUPATIONAL MEDICAL GROUP, INC.	295.00	IRWD Wells Fargo ACH	Reconciled
1002089	30-Nov-23	COLONIAL LIFE & ACCIDENT INSURANCE CO.	652.98	IRWD Wells Fargo ACH	Reconciled
1002090	30-Nov-23	COOMBS SERVICE GROUP	34,500.00	IRWD Wells Fargo ACH	Reconciled
1002091	30-Nov-23	COTTONS POINT DESIGN, INC.	16,729.28	IRWD Wells Fargo ACH	Reconciled
1002092	30-Nov-23	DAYTON CERTIFIED WELDING,INC.	8,000.00	IRWD Wells Fargo ACH	Reconciled
1002093	30-Nov-23	DELTA DENTAL OF CALIFORNIA	44,163.90	IRWD Wells Fargo ACH	Reconciled
1002094	30-Nov-23	DEMARIA ELECTRIC MOTOR SERVICES, INC.	11,863.72	IRWD Wells Fargo ACH	Reconciled
1002095	30-Nov-23	DRAKE TRAFFIC CONTROL SERVICES INC	15,320.00	IRWD Wells Fargo ACH	Reconciled
1002096	30-Nov-23	E.J. MEYER COMPANY	45,610.86	IRWD Wells Fargo ACH	Reconciled
1002097	30-Nov-23	EHS INTERNATIONAL,INC	1,320.00	IRWD Wells Fargo ACH	Reconciled
1002098	30-Nov-23	EUROFINS ENVIRONMENT TESTING AMERICA HOLDINGS, INC.	3,700.00	IRWD Wells Fargo ACH	Reconciled
1002099	30-Nov-23	FIDELITY SECURITY LIFE INSURANCE COMPANY	8,045.78	IRWD Wells Fargo ACH	Reconciled
1002100	30-Nov-23	GANAHL LUMBER CO.	86.64	IRWD Wells Fargo ACH	Reconciled
1002101	30-Nov-23	HANSON BRIDGETT LLP	80,918.11	IRWD Wells Fargo ACH	Reconciled
1002102	30-Nov-23	HELPMATES STAFFING SERVICES LLC	2,272.00	IRWD Wells Fargo ACH	Reconciled
1002103 1002104	30-Nov-23 30-Nov-23	HILL BROTHERS CHEMICAL COMPANY	27,778.48	IRWD Wells Fargo ACH	Reconciled
1002104	30-Nov-23	JOHN MICHAEL COVAS	217.50 66,792.00	IRWD Wells Fargo ACH	Reconciled
1002105	30-Nov-23	LANDCARE HOLDINGS, INC. MARK KADESH	10,506.00	IRWD Wells Fargo ACH IRWD Wells Fargo ACH	Reconciled Reconciled
1002100	30-Nov-23	MERRIMAC PETROLEUM, INC.	34,644.43	IRWD Wells Fargo ACH	Reconciled
1002107	30-Nov-23	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	181.05	IRWD Wells Fargo ACH	Reconciled
1002109	30-Nov-23	OLIN CORPORATION	123,750.05	IRWD Wells Fargo ACH	Reconciled
1002110	30-Nov-23	OLSON REMCHO LLP	554.50	IRWD Wells Fargo ACH	Reconciled
1002111	30-Nov-23	ORANGE COUNTY AUTO PARTS CO	3,101.76	IRWD Wells Fargo ACH	Reconciled
1002112	30-Nov-23	PACIFIC PARTS & CONTROLS INC	14,150.38	IRWD Wells Fargo ACH	Reconciled
1002113	30-Nov-23	QUICKEL PAVING INC	4,395.00	IRWD Wells Fargo ACH	Reconciled
1002114	30-Nov-23	RAM AIR ENGINEERING INC	17,081.11	IRWD Wells Fargo ACH	Reconciled
1002115	30-Nov-23	REACH EMPLOYEE ASSISTANCE INC	1,072.40	IRWD Wells Fargo ACH	Reconciled
1002116	30-Nov-23	RELIANCE STANDARD LIFE INSURANCE COMPANY	44,231.28	IRWD Wells Fargo ACH	Reconciled
1002117	30-Nov-23	RINCON TRUCK CENTER INC.	2,425.54	IRWD Wells Fargo ACH	Reconciled
1002118	30-Nov-23	RLG ENTERPRISES, INC	522.02	IRWD Wells Fargo ACH	Reconciled
1002119	30-Nov-23	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	16,430.24	IRWD Wells Fargo ACH	Reconciled
1002120	30-Nov-23	SPATIAL WAVE, INC.	15,990.00	IRWD Wells Fargo ACH	Reconciled
1002121	30-Nov-23	SUKLE ADVERTISING INC.	4,503.75	IRWD Wells Fargo ACH	Reconciled
1002122	30-Nov-23	SUNSHINE SUPPLY COMPANY, INC.	2,248.21	IRWD Wells Fargo ACH	Reconciled
1002123	30-Nov-23	VSS SALES INC	29,061.98	IRWD Wells Fargo ACH	Reconciled
1002124	30-Nov-23	WEST COAST SAFETY SUPPLY INC	1,595.83	IRWD Wells Fargo ACH	Reconciled
1002125	30-Nov-23	WOODARD & CURRAN INC	225,492.35	IRWD Wells Fargo ACH	Negotiable
1002126	30-Nov-23	YORKE ENGINEERING, LLC	536.25	IRWD Wells Fargo ACH	Reconciled
SUB-TOTAL IRWD	WELLS FARGO	ACH DISBURSEMENTS	4,677,719.75		
1001917	2-Nov-23	Cano, Marco T (Marco)	176.62	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001918	2-Nov-23	Cariker, Cody J (Cody)	13.76	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001919	2-Nov-23	Chambers, Wendy	2,553.24	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001920	2-Nov-23	Cortez, Malcolm A (Malcolm)	76.64	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001921	2-Nov-23	Davis, Jennifer R (Jennifer)	2,232.74	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001922	2-Nov-23	Kanoff, Debbie G (Debbie)	83.92	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001923	2-Nov-23	Koenig, Timothy (Tim)	16.38	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001924 1001925	2-Nov-23 2-Nov-23	Kulick, Michael Loukeh, Jacob	283.61 44.86	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
			62.88	IRWD Wells Fargo ACH for Expense Reports	
1001926 1001927	2-Nov-23 2-Nov-23	Ludwig, Jason Madding, Joshua	93.14	IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1001927	2-Nov-23	Marquez, Jesus	41.53	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001929	2-Nov-23	Mendoza, Oliver	2,773.66	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001930	2-Nov-23	Munoz Osorio, Eden	74.40	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001931	2-Nov-23	Nash, Joel	89.13	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001932	2-Nov-23	Pham, Kelly	125.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001933	2-Nov-23	Pulles, Margaret M (Margaret)	20.40	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001934	2-Nov-23	Ramirez, Eric	87.24	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001935	2-Nov-23	Rawlins, Othniel Jr.	117.90	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001936	2-Nov-23	Reed, Megan A	50.70	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001937	2-Nov-23	Rios, Elias L	65.50	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001938	2-Nov-23	Sagert, Justin	70.44	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001939	2-Nov-23	Schreck, Jeffrey A (Jeffrey)	48.72	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001940	2-Nov-23	Smith, Brianna	17.82	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001941	2-Nov-23	Spencer, Jeremy J	18.47	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001942	2-Nov-23	Tolerico, Steven M (Steve)	46.50	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001943	2-Nov-23	Valencia, Reynaldo (Rey)	57.50	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001969	9-Nov-23	Argueta, Carlos R.	47.16	IRWD Wells Fargo ACH for Expense Reports	Reconciled
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CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
1001970	9-Nov-23	Avalos, Joaquin	319.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001971 1001972	9-Nov-23 9-Nov-23	Berry, Wyatt	19.65 168.27	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1001972	9-Nov-23	Collazo, Carlos C (Carlos) Compton, Christine A	100.27	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001974	9-Nov-23	Contreras, Joaquin	27.90	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001975	9-Nov-23	De Castro, Earl	31.31	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001976	9-Nov-23	Hernandez Ortiz, Horacio	23.03	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001978	9-Nov-23	Huff, Cody	76.24	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001979 1001980	9-Nov-23 9-Nov-23	Jakubas-Pufal, Dorota Jordan, Dawn M (Dawn)	24.89 73.63	IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1001980	9-Nov-23	Kulick, Michael	16.56	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001982	9-Nov-23	Madding, Joshua	93.14	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001983	9-Nov-23	Moeder, Jacob J (Jacob)	71.76	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001984	9-Nov-23	Orozco, Gustavo A (Gus)	20.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001985	9-Nov-23	Perez, Rodolfo (Rudy)	43.43	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001986	9-Nov-23	Santos, Lina	17.55	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001987 1001988	9-Nov-23 9-Nov-23	Teyechea, Cresta (Chrissy) Valencia, Reynaldo (Rey)	16.24 20.00	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1001989	9-Nov-23	Williams, Warren (Randy)	3,879.97	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1001990	9-Nov-23	Zamora, Victor A	260.13	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002028	16-Nov-23	Argueta, Carlos R.	94.32	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002029	16-Nov-23	Bill, Cody (Cody)	98.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002030	16-Nov-23	Bornhoff, Mike (Mike)	334.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002031 1002032	16-Nov-23 16-Nov-23	Colston, James David, Shanna	199.56 410.73	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002032	16-Nov-23	De Castro, Earl	31.31	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002034	16-Nov-23	Garcia, Alejandro (Alex)	20.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002035	16-Nov-23	Garcia, Juan	21.74	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002036	16-Nov-23	Hernandez, Thomas J	242.42	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002037	16-Nov-23	Huff, Cody	221.52	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002038	16-Nov-23	Olivolo, Eric J (Eric)	147.08	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002039	16-Nov-23	Orozco, Jasmine	68.14	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002040 1002041	16-Nov-23 16-Nov-23	Reed, Megan A	50.70 25.42	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002041	16-Nov-23	Rodriguez, Jimmy Shapiro, Matthew	20.00	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002043	16-Nov-23	Spangenberg, Carl W (Carl)	36.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002044	16-Nov-23	Trigg, Tyler	94.47	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002045	16-Nov-23	Valencia, Reynaldo (Rey)	73.64	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002046	16-Nov-23	Villella, Aaren	374.55	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002047	16-Nov-23	Wang, Gabrielle	157.72	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002048	16-Nov-23	Zamora, Victor A	40.60	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002049 1002050	22-Nov-23 22-Nov-23	Bendzick-Sin, Julie M (Julie) Chaney, Michael A (Michael)	50.30 60.93	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002050	22-Nov-23	Hansberger, Brianna	125.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002052	22-Nov-23	Mendoza, Oliver	469.62	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002053	22-Nov-23	Monday, Jason	81.09	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002054	22-Nov-23	Nguyen, Jeanny	131.28	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002055	22-Nov-23	Orozco, Gustavo A (Gus)	197.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002056	22-Nov-23	Sanchez, Fiona M (Fiona)	771.18	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002057 1002058	22-Nov-23 22-Nov-23	Shapiro, Matthew Torres, Richard P (Richard)	66.09 108.00	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002058	22-Nov-23	Vu, Johnny T (Johnny)	19.13	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002062	30-Nov-23	Chaves, Romuel-Dave E (RD)	44.79	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002063	30-Nov-23	Coleman, Nicholas (Nick)	319.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002064	30-Nov-23	Fehser, Noah (Noah)	60.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002065	30-Nov-23	Garcia, Dorys Elizabeth	91.70	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002066	30-Nov-23	Garcia, Juan	48.57	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002067 1002068	30-Nov-23 30-Nov-23	Jordan, Dawn M (Dawn) Li, Vladimir	58.56	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002069	30-Nov-23	Lopez, Miguel	1,401.45 44.02	IRWD Wells Fargo ACH for Expense Reports IRWD Wells Fargo ACH for Expense Reports	Reconciled Reconciled
1002070	30-Nov-23	Madding, Joshua	93.14	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002071	30-Nov-23	Melendez, Isabel	221.00	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002072	30-Nov-23	Mendoza, Evelyn	147.38	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002073	30-Nov-23	Munoz, Ruben	22.27	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002074	30-Nov-23	Nguyen, Jeanny	29.60	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002075	30-Nov-23	Rodriguez, Jimmy	12.71	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002076	30-Nov-23	Ruiz, Ricky (Ricky)	45.33 88.14	IRWD Wells Fargo ACH for Expense Reports	Reconciled
1002077 SUB-TOTAL IRWD	30-Nov-23 WELLS FARGO	Valencia, Reynaldo (Rey) ACH FOR EXPENSE REPORTS	88.14 22,262.57	IRWD Wells Fargo ACH for Expense Reports	Reconciled
			EE,EOE.01		
2000490	2-Nov-23	FERGUSON ENTERPRISES, LLC	13,307.12	IRWD Wells Fargo PC	Reconciled
2000491	2-Nov-23	HARRINGTON INDUSTRIAL PLASTICS LLC	421.97	IRWD Wells Fargo PC	Reconciled
2000492	2-Nov-23	INNOVATIVE MACHINE TOOL REPAIR LLC	1,479.48	IRWD Wells Fargo PC	Reconciled
2000493 2000494	2-Nov-23 2-Nov-23	RESTEK CORPORATION THOMPSON & PHIPPS INC	208.93 1,600.16	IRWD Wells Fargo PC IRWD Wells Fargo PC	Reconciled Reconciled
2000434	Z 1404-ZJ	Mom son a rimits me	1,000.10	INVVD VVCIIS I digo re	Accondition

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CHECK OR ELECTRONIC #	PAYMENT DATE	SUPPLIERS	PAYMENT AMOUNT	PAYMENT METHOD	STATUS
2000495	2-Nov-23	WECK LABORATORIES INC	4,320.00	IRWD Wells Fargo PC	Reconciled
2000496	9-Nov-23	CAPTIVE AUDIENCE MARKETING INC.	79.00	IRWD Wells Fargo PC	Reconciled
2000497	9-Nov-23	FERGUSON ENTERPRISES, LLC	5,142.57	IRWD Wells Fargo PC	Reconciled
2000498	9-Nov-23	FLEET SOLUTIONS LLC	5,261.65	IRWD Wells Fargo PC	Reconciled
2000499	9-Nov-23	IDEXX DISTRIBUTION, INC	25,085.20	IRWD Wells Fargo PC	Reconciled
2000500	9-Nov-23	POLYDYNE INC	89,811.78	IRWD Wells Fargo PC	Reconciled
2000501	9-Nov-23	THERMO ELECTRON NORTH AMERICA LLC	1,965.03	IRWD Wells Fargo PC	Reconciled
2000502	9-Nov-23	THOMPSON & PHIPPS INC	3,548.57	IRWD Wells Fargo PC	Reconciled
2000503	9-Nov-23	WECK LABORATORIES INC	2,190.00	IRWD Wells Fargo PC	Reconciled
2000504 2000505	16-Nov-23 16-Nov-23	CULLIGAN OF SANTA ANA FERGUSON ENTERPRISES, LLC	26,510.00 46,307.18	IRWD Wells Fargo PC	Reconciled Reconciled
2000505	16-Nov-23	INNOVATIVE MACHINE TOOL REPAIR LLC	46,307.18 3,720.97	IRWD Wells Fargo PC IRWD Wells Fargo PC	Reconciled
2000507	16-Nov-23	PARKWAY LAWNMOWER SHOP	72.67	IRWD Wells Fargo PC	Reconciled
2000508	16-Nov-23	RESTEK CORPORATION	273.83	IRWD Wells Fargo PC	Reconciled
2000509	16-Nov-23	THERMO ELECTRON NORTH AMERICA LLC	1,745.55	IRWD Wells Fargo PC	Reconciled
2000510	16-Nov-23	THOMPSON & PHIPPS INC	7,174.95	IRWD Wells Fargo PC	Reconciled
2000511	16-Nov-23	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA	5,958.56	IRWD Wells Fargo PC	Reconciled
2000512	16-Nov-23	WECK LABORATORIES INC	233.00	IRWD Wells Fargo PC	Reconciled
2000513	30-Nov-23	ABBA TERMITE & PEST CONTROL, INC.	525.00	IRWD Wells Fargo PC	Reconciled
2000514	30-Nov-23	ACCUSOURCE, INC.	1,483.08	IRWD Wells Fargo PC	Reconciled
2000515	30-Nov-23	EZKEM CORPORATION	4,565.20	IRWD Wells Fargo PC	Reconciled
2000516	30-Nov-23	FERGUSON ENTERPRISES, LLC	7,062.89	IRWD Wells Fargo PC	Reconciled
2000517 2000518	30-Nov-23	HARRINGTON INDUSTRIAL PLASTICS LLC IDEXX DISTRIBUTION, INC	18,766.92 285.54	IRWD Wells Fargo PC	Reconciled
2000518	30-Nov-23 30-Nov-23	•		IRWD Wells Fargo PC IRWD Wells Fargo PC	Reconciled Reconciled
2000519	30-Nov-23 30-Nov-23	INNOVATIVE MACHINE TOOL REPAIR LLC NCL OF WISCONSIN INC	1,497.40 658.90	IRWD Wells Fargo PC	Negotiable
2000521	30-Nov-23	RESOLUTE COMPANY	5,800.00	IRWD Wells Fargo PC	Negotiable
2000522	30-Nov-23	RESTEK CORPORATION	1,068.61	IRWD Wells Fargo PC	Reconciled
2000523	30-Nov-23	S & J SUPPLY CO INC	37,325.34	IRWD Wells Fargo PC	Reconciled
2000524	30-Nov-23	THOMPSON & PHIPPS INC	9,934.19	IRWD Wells Fargo PC	Reconciled
2000525	30-Nov-23	WECK LABORATORIES INC	8,502.00	IRWD Wells Fargo PC	Negotiable
SUB-TOTAL IRWD	WELLS FARGO	PC	343,893.24		
100063	14-Nov-23	BANK OF NEW YORK MELLON TRUST COMPANY NA	24,009.56	IRWD Wells Fargo Wire	Negotiable
100064	20-Nov-23	U.S. BANK NATIONAL ASSOCIATION	66,945.22	IRWD Wells Fargo Wire	Negotiable
100065 100066	20-Nov-23	BANK OF AMERICA	64,602.72	IRWD Wells Farge Wire	Negotiable
100067	20-Nov-23 20-Nov-23	BANK OF NEW YORK MELLON TRUST COMPANY NA U.S. BANK NATIONAL ASSOCIATION	200,277.70 31,887.12	IRWD Wells Fargo Wire IRWD Wells Fargo Wire	Negotiable Negotiable
100067	20-Nov-23	SUMITOMO MITSUI BANKING CORPORATION	67,806.58	IRWD Wells Fargo Wire	Negotiable
100069	30-Nov-23	BANK OF NEW YORK MELLON TRUST COMPANY NA	37,500.00	IRWD Wells Fargo Wire	Negotiable
		WIRE DISBURSEMENTS	493,028.90		
430533	16-Nov-23	SANTIAGO AQUEDUCT COMMISSION	18,407.00	IRWD Check	Reconciled
SUB-TOTAL IRWD I	BOFA CHECK D	DISBURSEMENTS	18,407.00		
15695	7-Nov-23	CHARD SNYDER & ASSOCIATES, INC.	22,343.20	IRWD Wire	Negotiable
15696	7-Nov-23	CHARD SNYDER & ASSOCIATES, INC.	3,913.06	IRWD Wire	Negotiable
15697	7-Nov-23	INTERNAL REVENUE SERVICE	271,843.81	IRWD Wire	Negotiable
15698 15699	7-Nov-23 7-Nov-23	FRANCHISE TAX BOARD EMPLOYMENT DEVELOPMENT DEPARTMENT	87,193.43 14,707.49	IRWD Wire IRWD Wire	Negotiable Negotiable
15700	7-Nov-23 7-Nov-23	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	3,037.80	IRWD Wire	Negotiable
15701	7-Nov-23	EMPOWER RETIREMENT, LLC	195,105.82	IRWD Wire	Negotiable
15702	8-Nov-23	YORK RISK SERVICES GROUP, INC.	2,988.13	IRWD Wire	Negotiable
15703	8-Nov-23	CALPERS	1,029.38	IRWD Wire	Negotiable
15704	8-Nov-23	CALPERS	303,108.56	IRWD Wire	Negotiable
15705	14-Nov-23	CHARD SNYDER & ASSOCIATES, INC.	3,780.35	IRWD Wire	Negotiable
15706	14-Nov-23	CHARD SNYDER & ASSOCIATES, INC.	4,624.63	IRWD Wire	Negotiable
15707	14-Nov-23	YORK RISK SERVICES GROUP, INC.	1,751.59	IRWD Wire	Negotiable
15708	27-Nov-23	CHARD SNYDER & ASSOCIATES, INC.	3,362.41	IRWD Wire	Negotiable
15709	27-Nov-23	CHARD SNYDER & ASSOCIATES, INC.	1,520.26	IRWD Wire	Negotiable
15710	27-Nov-23	YORK RISK SERVICES GROUP, INC.	3,130.36	IRWD Wire	Negotiable
15711	27-Nov-23	INTERNAL REVENUE SERVICE	328,904.41	IRWD Wire	Negotiable
15712 15713	27-Nov-23 27-Nov-23	FRANCHISE TAX BOARD EMPOWER RETIREMENT, LLC	104,372.87 274 577 50	IRWD Wire IRWD Wire	Negotiable Negotiable
15713	27-Nov-23 27-Nov-23	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	274,577.50 3,499.33	IRWD Wire	Negotiable
15714	27-Nov-23 27-Nov-23	EMPLOYMENT DEVELOPMENT DEPARTMENT	16,244.64	IRWD Wire	Negotiable
15716	28-Nov-23	CALPERS	301,675.05	IRWD Wire	Negotiable
15717	28-Nov-23	CHARD SNYDER & ASSOCIATES, INC.	5,506.52	IRWD Wire	Negotiable
15718	28-Nov-23	CHARD SNYDER & ASSOCIATES, INC.	2,623.29	IRWD Wire	Negotiable
15719	28-Nov-23	YORK RISK SERVICES GROUP, INC.	10,491.20	IRWD Wire	Negotiable
SUB-TOTAL IRWD I	BOFA WIRE DI	SBURSEMENTS	1,971,335.09		
SUB-TOTAL BOFA	AND WELLS FA	ARGO CHECK AND ELECTRONIC DISBURSEMENTS	19,169,464.85		

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CHECK OR	PAYMENT		PAYMENT		
ELECTRONIC #	DATE	SUPPLIERS	AMOUNT	PAYMENT METHOD	STATUS
1001977	9-Nov-23	Hernandez, Thomas J	242.42	IRWD Wells Fargo ACH for Expense Reports	Voided
SUB-TOTAL BOFA AND WELLS FARGO CHECK AND ELECTRONIC ISSUED AND VOIDED IN NOV 2023			242.42		
TOTAL			19,169,707.27		

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Exhibit "E"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

November 2023

	AMOUNT	VENDOR	PURPOSE
11/3/2023 11/17/2023	1,217,381.94 1,425,709.80 \$2,643,091.74	BANK OF AMERICA BANK OF AMERICA	ACH Payments for Payroll ACH Payments for Payroll

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Exhibit "F"

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-NOV-23 to 30-NOV-23

NAME	CHECK NO.	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Avalos, Joaquin	1001970	9-Nov-23	221.00	Membership	CWEA membership
Bornhoff, Mike	1002030	16-Nov-23	221.00	Membership	CWEA membership
Bornhoff, Mike	1002030	16-Nov-23	113.00	Certification	CWEA Electrical and Instrumentation Grade IV
Chambers, Wendy	1001919	2-Nov-23	392.96 A	Airfare	WEFTEC 2023 Conference, Chicago, IL September 30-October 4, 2023
Chambers, Wendy	1001919	2-Nov-23	358.53 L	Lodging	WEFTEC 2023 Conference, Chicago, IL September 29, 2023
Chambers, Wendy	1001919	2-Nov-23	358.53 L		WEFTEC 2023 Conference, Chicago, IL September 30, 2023
Chambers, Wendy	1001919	2-Nov-23	358.53 L		WEFTEC 2023 Conference, Chicago, IL October 1, 2023
Chambers, Wendy	1001919	2-Nov-23	358.53 L		WEFTEC 2023 Conference, Chicago, IL October 2, 2023
Chambers, Wendy	1001919	2-Nov-23	358.53 L	0 0	WEFTEC 2023 Conference, Chicago, IL October 3, 2023
Coleman, Nicholas (Nick)	1002063	30-Nov-23	221.00	Membership	CWEA membership
David, Shanna	1002032	16-Nov-23	120.91 N		CalPERS Educational Forum, Los Angeles, CA October 2, 2023
David, Shanna	1002032	16-Nov-23	120.91	Mileage	CalPERS Educational Forum, Los Angeles, CA October 3, 2023
David, Shanna	1002032	16-Nov-23	120.91 N		CalPERS Educational Forum, Los Angeles, CA October 4, 2023
Davis, Jennifer	1001921	2-Nov-23		Other(Misc)	Gift cards for Deferred Comp National Retirement week October 2023
Davis, Jennifer	1001921	2-Nov-23	418.07 L		The Bond Buyer California Public Finance Conf., San Francisco, CA October 17, 2023
Davis, Jennifer	1001921	2-Nov-23	418.07 L		The Bond Buyer California Public Finance Conf., San Francisco, CA October 18, 2023
Davis, Jennifer	1001921	2-Nov-23	418.07 L	Lodging	The Bond Buyer California Public Finance Conf., San Francisco, CA October 19, 2023
Davis, Jennifer	1001921	2-Nov-23	340.98 L		Association Finance Professional, San Diego, CA October 22, 2023
Hansberger, Brianna	1002051	22-Nov-23	125.00 (Other(Misc)	Safety shoe allowance
Hernandez, Thomas	1002036	16-Nov-23		Other(Misc)	Safety shoe allowance
Huff, Cody	1002037	16-Nov-23	221.52	Mileage	Scheduled overtime shift - Cassette Inspections / Area 1, Madera, CA
Li, Vladimir	1002068	30-Nov-23	370.77 L	Lodging	AWWA Rate-Setting Essentials, Cost of Service & Rate Design, San Diego, CA - November 15, 2023
Li, Vladimir	1002068	30-Nov-23	258.08 L	Lodging	AWWA Rate-Setting Essentials, Cost of Service & Rate Design, San Diego, CA - November 16, 2023
Li, Vladimir	1002068	30-Nov-23	258.08 L		AWWA Rate-Setting Essentials, Cost of Service & Rate Design, San Diego, CA - November 17, 2023
Melendez, Isabel	1002071	30-Nov-23	221.00	Membership	CWEA membership
Mendoza, Evelyn	1002072	30-Nov-23	147.38	Mileage	Overtime coverage October 27, 2023, November 10, 2023 and November 17, 2023
Mendoza, Oliver	1001929	2-Nov-23	418.07 L	0 0	The Bond Buyer California Public Finance Conf., San Francisco, CA October 17, 2023
Mendoza, Oliver	1001929	2-Nov-23	418.07 L		The Bond Buyer California Public Finance Conf., San Francisco, CA October 18, 2023
Mendoza, Oliver	1001929	2-Nov-23	418.07 L	Lodging	The Bond Buyer California Public Finance Conf., San Francisco, CA October 19, 2023
Mendoza, Oliver	1001929	2-Nov-23	378.66 L	Lodging	Association Finance Professional, San Diego, CA October 22, 2023
Mendoza, Oliver	1001929	2-Nov-23	387.17 L	Lodging	Association Finance Professional, San Diego, CA October 23, 2023
Mendoza, Oliver	1001929	2-Nov-23	380.56 L		Association Finance Professional, San Diego, CA October 24, 2023
Mendoza, Oliver	1002052	22-Nov-23	234.81 L	Lodging	GFOA Conf., Debt Management Best Practices, Chicago IL November 6, 2023
Mendoza, Oliver	1002052	22-Nov-23	234.81 L	0 0	GFOA Conf., Debt Management Best Practices, Chicago IL November 7, 2023
Nguyen, Jeanny	1002054	22-Nov-23		Other(Misc)	Safety shoe allowance
Pham, Kelly	1001932	2-Nov-23		Other(Misc)	Safety shoe allowance
Sanchez, Fiona	1002056	22-Nov-23	385.59 L	Lodging	WateReuse Conference, Indian Wells, CA November 5, 2023
Sanchez, Fiona	1002056	22-Nov-23	385.59 L		WateReuse Conference, Indian Wells, CA November 6, 2023
Torres, Richard	1002058	22-Nov-23		Certification	CWEA Collection System Maintenance Grade III
Wang, Gabrielle	1002047	16-Nov-23		Other(Misc)	Welcome lunch for DiemChau Francis with Payroll team
Williams, Randy	1001989	9-Nov-23		Registration Fees	Gartner IT Infrastructure, Operations and Cloud Strategies Conf., Las Vegas, NV December 4-7, 2023
Williams, Randy	1001989	9-Nov-23	229.97		Gartner IT Infrastructure, Operations and Cloud Strategies Conf., Las Vegas, NV December 4-7, 2023
Zamora, Victor	1001990	9-Nov-23	213.33 (Other(Misc)	Refreshments for Shadetree Nursery volunteers
		Total Amoun	t \$15,105.68		

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December 11, 2023 Prepared by: J. Davis

Submitted by: K. Morris / N. Adly Approved by: Paul A. Cook

CONSENT CALENDAR

PROPOSED 2024 INVESTMENT POLICY

SUMMARY:

Each year, IRWD is required to adopt an Investment Policy. Changes to the Policy from year-to-year are required to conform to any amendments to the California Government Code governing investment of public funds. During 2023, there was a change to Government Code section 53601(n) which clarified that Collateralized Mortgage Obligations and Asset Backed Securities that were not "issued or guaranteed by the United States or federal agency" must have an "AA" category rating. The proposed policy for 2024 includes changes that adhere to industry best practices and better aligns the IRWD Investment Policy with the California Government Code.

Staff recommends the Board adopt the resolution attached as Exhibit "A" and approve the proposed 2024 Investment Policy attached as Exhibit "B."

BACKGROUND:

Staff annually submits an Investment Policy to the Board of Directors for approval. The annual submittal generally incorporates amendments to investment-related Government Code sections, policy objectives, delegation of authority, and a detailed schedule of authorized investments. The Resolution and proposed 2024 Investment Policy are attached as Exhibits "A" and "B", respectively. A redlined version of the proposed 2024 Investment Policy is included as Exhibit "C".

The proposed 2024 Investment Policy includes changes that better align the policy to California Government Code and incorporates industry best practices to further enhance the oversight of the fixed income portfolio. For example, during 2023 Government Code section 53601(n) was changed to clarify that Collateralized Mortgage Obligations and Asset Backed Securities that were not "issued or guaranteed by the United States or federal agency" must have an "AA" category rating. Key changes in the Investment Policy are summarized as follows:

- 1. Page 3, the second and third paragraphs: Clarifies Government Code language on the purchasing of securities with a maturity of greater than five years with a forward settlement not exceeding 45 days to better align the policy with Government Code 53601.
- 2. Page 3, addition of "Prohibited Investments" section: Follows best industry practice to create a deposition plan if a non-compliant investment is purchased or falls out of compliance with the policy.
- 3. Page 3, "Authorized Financial Institutions", second paragraph: Removes the language that prevents the District from having a broker provide investment services if an acknowledgement of the new Investment Policy is not received in writing. This can be handled administratively to provide the District more flexibility to ensure financial services are not interrupted.

Consent Calendar: Proposed 2024 Investment Policy

December 11, 2023

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4. Page 4, Addition of "Training and Continuing Education" section: Adds language to better align staff's expertise and accountability in performing cash and investment management responsibilities with IRWD values.

- 5. Page 5, of the proposed Investment Policy, added footnote: Clarifies that rating requirements in the Policy include the rating modifiers for the category and not just the listed rating.
- 6. Page 8, of the proposed Investment Policy, second row: Adds language in accordance with SB 882 bill effective January 1, 2024, better aligning the Policy with Government Code.

As specified in the Government Code, the Board's delegation of authority to the Treasurer and Assistant Treasurer(s) to manage the District's investment program is limited to a one-year period, renewable annually. The recommended 2024 Investment Policy includes continuation of this annual delegation of authority to the Treasurer and Assistant Treasurer(s).

Given the conservative nature of the State codes and the Board's additional restrictions, staff believes the authorized investments in the recommended 2024 Investment Policy are sufficiently limited to ensure appropriate investment security while retaining some degree of flexibility to take advantage of changing market opportunities. Additionally, the recommended policy provides authority for the Finance and Personnel Committee to further restrict, but not liberalize, authorized investments. Any liberalization of authorized investments would first require the approval of the Board of Directors.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

This activity is categorically exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Sections 15301 and 15302.

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee on December 5, 2023.

RECOMMENDATION:

THAT THE BOARD APPROVE THE PROPOSED 2024 INVESTMENT POLICY AND ADOPT THE FOLLOWING RESOLUTION BY TITLE:

Consent Calendar: Proposed 2024 Investment Policy

December 11, 2023

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RESOLUTION NO. 2023-17

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE IRVINE RANCH WATER DISTRICT
APPROVING AN INVESTMENT POLICY AND
AUTHORIZING THE TREASURER AND ASSISTANT TREASURERS
TO INVEST AND REINVEST FUNDS OF THE DISTRICT
AND OF EACH OF ITS IMPROVEMENT DISTRICTS
AND TO SELL AND EXCHANGE SECURITIES,
SUPERSEDING RESOLUTION 2022-18

LIST OF EXHIBITS:

Exhibit "A" – Resolution Adopting 2024 Investment Policy

Exhibit "B" – Proposed 2024 Investment Policy

Exhibit "C" – Proposed 2024 Investment Policy Redline Version

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Exhibit "A"

RESOLUTION NO. 2023-17

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE IRVINE RANCH WATER DISTRICT
APPROVING AN INVESTMENT POLICY AND
AUTHORIZING THE TREASURER AND ASSISTANT TREASURERS
TO INVEST AND REINVEST FUNDS OF THE DISTRICT
AND OF EACH OF ITS IMPROVEMENT DISTRICTS
AND TO SELL AND EXCHANGE SECURITIES,
SUPERSEDING RESOLUTION 2022-18

The Treasurer of the Irvine Ranch Water District ("District") is permitted by Section 53646 of the California Government Code to annually render to the Board of Directors (the "Board") a statement of investment policy, which the Board shall consider at a public meeting.

The Treasurer has presented the 2024 Investment Policy to the Board at a public meeting, in the form attached to this Resolution.

Section 53607 of the California Government Code permits the Board to annually delegate to the Treasurer of the District the Board's authority to invest or reinvest funds of the District or sell or exchange securities so purchased, allows renewal of the delegation of authority to the Treasurer by the Board on an annual basis, and establishes a requirement for monthly reporting of the transactions by the Treasurer to the Board.

Section 53608 of the California Government Code permits the Board to delegate to the Treasurer of the District the Board's authority to deposit for safekeeping with a federal or state association (as defined by Section 5102 of the California Financial Code), a trust company or a state or national bank in California or in any city designated as a reserve city by the Board of Governors of the Federal Reserve System, or with any Federal Reserve bank, the bonds, notes, bills, debentures, obligations, certificates of indebtedness, warrants or other evidences of indebtedness in which money of the District is invested.

Under Section 53635.2 of the California Government Code, funds of the District may be deposited with certain financial institutions.

Pursuant to Section V, Paragraph 8 of the District's Bylaws, the Board has appointed one or more Assistant Treasurers.

Resolution No. 2022-18 contains the Board's previous delegation of authority to the Treasurer and Assistant Treasurer(s) to invest or reinvest funds, sell or exchange securities, deposit investments for safekeeping, and deposit funds, and the Board intends by this resolution to renew that delegation of authority.

The Board of Directors of Irvine Ranch Water District therefore resolves as follows:

<u>Section 1</u>. The 2024 Investment Policy of the District is approved in the form attached to this Resolution, effective January 1, 2024, and will remain in effect until it is revoked or is superseded.

<u>Section 2</u>. The authority of the Board to invest or reinvest funds of the District and its Improvement Districts or to sell or exchange securities so purchased, subject to the requirements of the 2024 Investment Policy, is hereby delegated to each of the Treasurer and the Assistant Treasurer(s). Pursuant to California Government Code Section 53607, the Treasurer shall assume full responsibility for those transactions until this delegation is revoked or expires. This delegation is effective as of January 1, 2024, and will remain in effect until it is revoked or is superseded by a subsequent delegation.

Section 3. The authority of the Board to deposit for safekeeping with a federal or state association (as defined by Section 5102 of the California Financial Code), a trust company or a state or national bank in California or in any city designated as a reserve city by the Board of Governors of the Federal Reserve System, or with any Federal Reserve bank, the bonds, notes, bills, debentures, obligations, certificates of indebtedness, warrants or other evidences of instruments in which money of the District and its improvement districts is invested, subject to the requirements of the 2024 Investment Policy, is hereby delegated to each of the Treasurer and the Assistant Treasurer(s). This delegation is effective as of January 1, 2024, and will remain in effect until it is revoked or is superseded by a subsequent delegation.

<u>Section 4</u>. This resolution supersedes Resolution No. 2022-18.

ADOPTED, SIGNED AND APPROVED on December 11, 2023.

	President IRVINE RANCH WATER DISTRICT and of the Board of Directors thereof
APPROVED AS TO FORM:	Secretary IRVINE RANCH WATER DISTRICT and of the Board of Directors thereof
By: HANSON BRIDGETT LLP Legal Counsel	

Exhibit "B"

RESOLUTION 2023-____, ATTACHMENT "A"

IRVINE RANCH WATER DISTRICT 2024 INVESTMENT POLICY

Introduction:

This investment policy is intended to establish a clear understanding of the District's authorized investment activities for members of the public, the Board of Directors of the Irvine Ranch Water District (the "District"), District management, and outside investment professionals.

Policy:

It is the policy of the District to invest its funds in a prudent and professional manner which will provide maximum security of principal while meeting required cash flow demands and conforming to all State statutes governing the investment of public funds, the District's investment policies, and prudent cash management principles.

Scope:

This investment policy applies to all District funds that are under the direct oversight of the Board of Directors. The investment of any bond proceeds or related funds will also be made in accordance with this investment policy.

Standard of Care:

The Board of Directors and those persons authorized to make investment decisions on behalf of the District are trustees of public funds. The standard of care to be used in all investment transactions shall be the "prudent investor" standard set forth in California Government Code Section 53600.3, which states:

"When investing, reinvesting, purchasing, acquiring, exchanging, selling, or managing public funds, a trustee shall act with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic conditions and the anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency."

Officers and employees of the District involved in the investment process shall refrain from personal business activities that could conflict with proper execution of the investment program or could impair their ability to make impartial investment decisions. "Designated employees" of the District involved in the investment of District funds, which includes the Treasurer and Assistant

Treasurer(s), shall disclose all information at the times and in the manner required by the District's Conflict of Interest Code.

Objectives:

The primary objectives of the District's investment activities, in priority order, are as follows:

- 1. <u>Safety:</u> Safety of principal is the foremost objective of the investment program. Investments of the District shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. Accordingly, diversification by issuer, type, and maturity of securities will be made to avoid or minimize potential losses on individual securities.
- 2. <u>Liquidity:</u> The District's investment portfolio will remain sufficiently liquid to enable the District to meet all operating and capital cash requirements. To the extent required, this liquidity will be maintained through the purchase of securities with active secondary or resale markets and with short-term maturities to minimize market risk on the market price of the securities.
- 3. <u>Yield:</u> The District's investment portfolio shall be designed with the objective of attaining the highest rate of return commensurate with the above requirements for the preservation of capital and the maintenance of adequate liquidity.

Delegation of Authority:

In accordance with Government Code Sections 53607 and 53608, the Board of Directors hereby delegates to the District's Treasurer and Assistant Treasurer(s) the authority to manage the District's investment program and to provide for the safekeeping of securities. This delegated authority is effective for the 2024 calendar year (Resolution 2023-__).

Authorized Investments:

The District is authorized to invest its funds pursuant to the following laws:

California Government Code:

- Section 53600 *et seq.* General investments
- Section 16429.1 Local Agency Investment Fund (LAIF)
- Section 53684 Orange County Treasury Pool (not currently authorized by the Board of Directors)
- Section 5920 et seq. Public finance contracts

California Water Code:

• Section 35912 – Real estate

The language of the Investment Policy will conform to the statutory requirements as the statutes change over time.

The Treasurer and Assistant Treasurer(s) are authorized to invest District funds in accordance with these laws, subject to certain restrictions imposed by the District's Board of Directors. These authorized investments and restrictions are shown in Table "A", included below.

Whenever practical, a competitive process shall be used for the purchase and sale of securities.

The Treasurer and Assistant Treasurer(s) are authorized to invest in securities with terms or remaining maturities in excess of five years as part of the District's investment program, but no such investments are to be made without the concurrence of the Finance and Personnel Committee. Unless approved as described above, no investment will be made in any security (other than a security underlying a repurchase, reverse repurchase, or securities lending agreement) that at the time of the investment purchase, has a term remaining to maturity in excess of five years.

Any securities purchased will not have a forward settlement date exceeding 45 days from the time of investment. The investment term or remaining maturity is to be measured from the settlement date to final maturity.

Non-Compliant Investments:

For the purposes of this Investment Policy, a "non-compliant investment" is defined as an investment that does not adhere to the requirements in this policy's Table "A"-Authorized Investments and Restriction either at the time the investment is purchased or fell out of compliance at any point after it was purchased. If an investment becomes non-compliant, then the Treasurer shall notify the Finance & Personnel Committee and implement a disposition plan for the investment, if necessary.

Authorized Financial Institutions:

Only financial institutions designated as "primary dealers" by the Federal Reserve Bank of New York, or other dealers that qualify under United States Securities and Exchange Commission Rule 15C3-1 (uniform net capital rule), are authorized to provide investment services to the District. The Treasurer and Assistant Treasurer(s) may limit the number of dealers authorized to provide such services.

A copy of the District's annual investment policy shall be provided to each institution authorized by the Treasurer or Assistant Treasurer(s) to provide services to the District. Financial institutions shall acknowledge in writing that it has received the District's investment policy and that all persons handling the District's account have reviewed the policy.

All authorized financial institutions are required to provide electronic access to the financial statements.

Safekeeping and Custody:

All security transactions entered into by the District shall be conducted on a delivery-versus-payment (DVP) basis. All securities owned by the District shall be delivered to the District by book entry, physical delivery, or a third-party custodial agreement. Any third-party custodian shall be designated by the Treasurer, and all securities held by such custodian, including book entry and physical securities, shall be held in a manner that clearly establishes the District's right of ownership. The District's custodial agent shall meet the requirements of Government Code Section 53608. The District's deposits with LAIF or any other authorized investment pool shall be evidenced by the standard reporting requirements of LAIF or the investment pool.

Reporting:

The Treasurer shall file a monthly report with the Board of Directors at a public meeting that shows the status of the District's cash and securities, and all related investment transactions that occurred during the month. The status report shall also be filed with the District's General Manager and will include at least the following information:

- Type of investment
- Original cost
- Issuing institution
- Market value, including source
- Par amount
- Maturity date
- Coupon and/or yield

In addition, the status report shall include the portfolio's rate of return for the month, the average weighted life of the portfolio, a statement regarding the portfolio's compliance with the District's investment policy, and a statement regarding the District's ability to meet expenditure requirements over the following six months. (California Government Code Sections 53607 and 53646.)

The Treasurer or Assistant Treasurer(s) shall also file a quarterly report with the Board of Directors at a public meeting with respect to the District's real estate investments and any related transactions which occurred during such quarter. The real estate report will be structured to comply as closely as possible with the information requirements of California Government Code Section 53646.

Investment Policy Adoption and Amendments:

The Treasurer or Assistant Treasurer(s) shall submit an investment policy at least annually to the Board of Directors at a public meeting. (California Government Code Section 53646.) The policy shall be effective for the calendar year specified. If the Board of Directors does not approve an investment policy for any calendar year, then the investment policy for the previous calendar year shall remain in effect until a new policy is approved.

The District's Finance and Personnel Committee is authorized to make changes in the investment policy, as necessary, provided that such changes may only be more restrictive in nature. Any changes that would liberalize the investment policy shall be approved by the Board of Directors before becoming effective. Any changes in the investment policy by the Finance and Personnel Committee shall be reported to the Board of Directors at its next regular meeting.

Training and Continuing Education:

Treasury staff have a responsibility to invest the District's funds with professionalism, prudence, and accountability. In order to adhere to these high professional standards, all Treasury staff that are involved in the investment process are encouraged to complete at least 10 hours per year of continuing education programs related to cash and investment management.

Table "A"
Authorized Investments and Restrictions*

^{*} Minimum NRSRO credit ratings listed below include all modifiers (+/-)

INVESTMENT TYPE	DESCRIPTION	RESTRICTIONS
California State and	Registered state warrants, treasury notes	Limited to securities
Local Agency Bonds,	or bonds. Any bonds, notes, warrants or	approved by the Finance
Notes and Warrants	other evidences of indebtedness of any	and Personnel
	local agency in California.	Committee.
U.S. Treasury and	U.S. Treasury notes, bonds, bills or	No additional
Agency Obligations	certificates of indebtedness, or those for	restrictions.
	which the full faith and credit of the	
	United States are pledged for the payment	
	of principal and interest. Also federal	
	agency or U.S. government sponsored	
	enterprise (GSE) obligations,	
	participations, or other instruments.	
Registered treasury notes	Registered treasury notes or bonds of any	Limited to states
or bonds of California or	of the other 49 United States in addition to	and/or agencies
other 49 United States	California, including bonds payable solely	approved by the
	out of the revenues from a revenue-	Finance and
	producing property owned, controlled, or	Personnel
	operated by a state or by a department,	Committee.
	board, agency, or authority of any of the	
	other 49 United States, in addition to	
	California.	
Banker's Acceptances	Must be eligible for discount at the	Limited to domestic and
-	Federal Reserve Bank. May not exceed	foreign banks approved by
	180 days maturity or 40% of local agency	the Finance and Personnel
	funds. No more than 30% of local agency	Committee.
	funds may be invested in banker's	
	acceptances of any one commercial bank.	
U.S. Dollar Denominated	United States dollar-denominated senior	Limited to securities
Senior Unsecured	unsecured unsubordinated obligations	approved by the Finance
Unsubordinated	issued or unconditionally guaranteed by	and Personnel
Obligations	the International Bank for Reconstruction	Committee.
	and Development, International Finance	
	Corporation, or Inter-American	
	Development Bank, with a maximum	
	remaining maturity of five years or less,	
	and eligible for purchase and sale within	
	the United States. Must be rated "AA" or	
	its equivalent or better by a nationally	
	recognized statistical rating organization	
	("NRSRO"). Limited to 30% of local	
	agency funds.	

Commercial Paper	Must be of "prime" quality of the highest ranking or of the highest letter and number rating as provided for by an NRSRO. Issuers must be organized and operating in the United States as a general corporation, have assets exceeding \$500 million, and has debt other than commercial paper, if any, that is rated "A" or its equivalent or better by an NRSRO. May not exceed 270 days maturity. Local agencies, that have less than \$100 million of investment assets under management may invest no more than 25% of their moneys in eligible commercial paper. Local agencies that have \$100 million or more of investment assets under management may invest up to 40% percent of their moneys in eligible commercial paper. A local agency may invest no more than 10% of its total investment assets in the commercial paper and the medium-term notes of any single issuer.	Limited to corporations approved by the Finance and Personnel Committee.
Negotiable Certificates of Deposit	Issued by national or state-chartered banks, savings associations, federal associations, state or federal credit unions, or by a federally licensed or state-licensed branch of a foreign bank. Specified restrictions on credit unions for conflicts of interest. Limited to 30% of local agency funds.	Limited to domestic and foreign banks and thrift institutions approved by the Finance and Personnel Committee.
Repurchase and Reverse Repurchase Agreements	Repurchase agreements are limited to a term of one year or less, and securities underlying the agreement shall be valued at 102% or greater of the funds borrowed against the securities, with the value adjusted at least quarterly. Reverse repurchase agreements, including securities lending agreements, are limited to 20% of the base portfolio value and to terms of 92 days or less unless a minimum earning or spread for the entire term is guaranteed in writing. Securities being sold on reverse must be owned by the agency for at least 30 days prior to sale. Reverse repurchase agreements shall be made with primary dealers of the Federal Reserve Bank of New York, or nationally and state chartered banks with a significant banking relationship with the local agency.	All reverse repurchase agreements must have the prior approval of the Finance and Personnel Committee.

Medium Term Notes	All debt securities issued by U.S. organized and operating corporations or depository institutions licensed by the U.S. or any state and operating within the U.S. Notes must be rated "A" or its equivalent or better by an NRSRO. May not exceed five years maturity, 30% of local agency funds, and no more than 10% of its total investment assets in the commercial paper and the medium-term notes of any	For depository institutions, same as shown under Negotiable Certificates of Deposit. For corporations, limited to those approved by the Finance and Personnel Committee.
Shares of Beneficial Interest	Issued by diversified management companies investing in securities and obligations as authorized by Cal. Gov. Code §53601. Companies shall have the highest ranking or highest letter and numerical rating assigned by not less than two NRSROs, or shall have a registered and experienced investment advisor with assets under management in excess of \$500 million. Purchase price shall not include any commissions. Limited to 20% of funds of which no more than 10% may be with any one fund.	No additional restrictions.
Collateralized Negotiable Securities	Notes, bonds or obligations secured by a valid first priority security interest in securities specified in Cal. Gov. Code §53651. (Cal. Gov. Code §53601(n).) Collateral to be placed by delivery or bookentry into the custody of a trust company or trust department of a bank not affiliated with the issuer. Security interest perfected in accordance with Uniform Commercial Code or applicable federal regulations. Collateral requirements are the same as required to secure bank deposits made by local agencies as specified in Cal. Gov. Code §53652.	No investment in collateralized negotiable securities shall be made without the prior approval of the Finance and Personnel Committee.

Collateralized Mortgage Obligations and Asset- Backed Securities	Mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-backed certificate, consumer receivable pass- through certificate, or consumer receivable-backed bond. For these securities eligible for investment but not issued or guaranteed by the United States or a federal agency, the securities must have an "AA" rating or its equivalent as rated by an NRSRO, must	No investment in collateralized mortgage obligations or asset-backed securities shall be made without the prior approval of the Finance and Personnel Committee.
Financial Futures and Options	have a maximum remaining maturity of five years or less, and may not exceed 20% of surplus funds. Authorizes the investment in financial futures and financial option contracts in any of the investment categories contained in Cal. Gov. Code §53601.1	No investments in financial futures and financial option contracts are to be made without the prior approval of the Finance and Personnel
Prohibited Investments	A local agency shall not invest any funds in inverse floaters, range notes, mortgage derived interest-only strips, or any security that could result in zero interest accrual if held to maturity. However, a local agency may hold prohibited instruments until their maturity dates. Notwithstanding the prohibition above, a local agency may invest in securities issued by, or backed by, the United States government that could result in zero- or negative-interest accrual if held to maturity, in the event of, and for the duration of, a period of negative market interest rates. A local agency may hold these instruments until their maturity dates. This section shall remain in effect only until January 1, 2026, and as of that date is repealed. (Cal. Gov. Code §53601.6.)	Committee. No additional restrictions.
Local Agency Investment Fund	Permits a local agency to deposit funds with the State Treasurer for the purpose of investment in securities prescribed in Cal. Gov. Code §§16429.1 et seq.	No additional restrictions.

Orange County Treasury Pool Inactive Public Deposits	Permits a local agency to deposit funds with the County Treasurer for investment in securities prescribed in Cal. Gov. Code §53635 or 53684. Deposits or contracts with Federal Reserve System banks insured by FDIC, savings associations or federal associations which are home loan bank members or insured by FSLIC, and state or federal credit unions. Specified restrictions on credit unions.	No investments are to be made with the Orange County Treasury Pool without the prior approval of the Board. No inactive public deposits are to be made without the prior approval of the Finance and Personnel Committee.
Public Finance Contracts	Includes interest rate swap agreements, currency swap agreements, forward payment conversion agreements, futures, or indexbased agreements to hedge payment, currency, rate, spread or similar exposure. Requires certain determinations by governing body. (Cal. Gov. Code §§5920 et seq.)	The Board is authorized to approve the general parameters for swap transaction types, maximum notional amount(s) and maximum duration(s). The Finance and Personnel Committee shall structure specific parameters for individual transactions including notional amount, transaction timing, counterparty selection, index to be used and ISDA agreement approval. (Resolution 2003-36)
Real Estate Investments	Authorized to invest no more than 30% of the District's Replacement Fund in real estate located in Orange County. (Cal. Wat. Code §35912.)	Real estate investments shall be made in accordance with existing Board policies (Resolution 1990-30). All real estate investments must be individually approved by the Board.

Note: This page is intentionally left blank.

Exhibit "C"

RESOLUTION 2023-____, ATTACHMENT "A"

IRVINE RANCH WATER DISTRICT 2024 INVESTMENT POLICY

Introduction:

This investment policy is intended to establish a clear understanding of the District's authorized investment activities for members of the public, the Board of Directors of the Irvine Ranch Water District (the "District"), District management, and outside investment professionals.

Policy:

It is the policy of the District to invest its funds in a prudent and professional manner which will provide maximum security of principal while meeting required cash flow demands and conforming to all State statutes governing the investment of public funds, the District's investment policies, and prudent cash management principles.

Scope:

This investment policy applies to all District funds that are under the direct oversight of the Board of Directors. The investment of any bond proceeds or related funds will also be made in accordance with this investment policy.

Standard of Care:

The Board of Directors and those persons authorized to make investment decisions on behalf of the District are trustees of public funds. The standard of care to be used in all investment transactions shall be the "prudent investor" standard set forth in California Government Code Section 53600.3, which states:

"When investing, reinvesting, purchasing, acquiring, exchanging, selling, or managing public funds, a trustee shall act with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic conditions and the anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency."

Officers and employees of the District involved in the investment process shall refrain from personal business activities that could conflict with proper execution of the investment program or could impair their ability to make impartial investment decisions. "Designated employees" of the District involved in the investment of District funds, which includes the Treasurer and Assistant

Treasurer(s), shall disclose all information at the times and in the manner required by the District's Conflict of Interest Code.

Objectives:

The primary objectives of the District's investment activities, in priority order, are as follows:

- 1. <u>Safety:</u> Safety of principal is the foremost objective of the investment program. Investments of the District shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. Accordingly, diversification by issuer, type, and maturity of securities will be made to avoid or minimize potential losses on individual securities.
- 2. <u>Liquidity:</u> The District's investment portfolio will remain sufficiently liquid to enable the District to meet all operating and capital cash requirements. To the extent required, this liquidity will be maintained through the purchase of securities with active secondary or resale markets and with short-term maturities to minimize market risk on the market price of the securities.
- 3. <u>Yield:</u> The District's investment portfolio shall be designed with the objective of attaining the highest rate of return commensurate with the above requirements for the preservation of capital and the maintenance of adequate liquidity.

Delegation of Authority:

In accordance with Government Code Sections 53607 and 53608, the Board of Directors hereby delegates to the District's Treasurer and Assistant Treasurer(s) the authority to manage the District's investment program and to provide for the safekeeping of securities. This delegated authority is effective for the 2024 calendar year (Resolution 2023-__).

Authorized Investments:

The District is authorized to invest its funds pursuant to the following laws:

California Government Code:

- Section 53600 et seq. General investments
- Section 16429.1 Local Agency Investment Fund (LAIF)
- Section 53684 Orange County Treasury Pool (not currently authorized by the Board of Directors)
- Section 5920 et seq. Public finance contracts

California Water Code:

• Section 35912 - Real estate

The language of the Investment Policy will conform to the statutory requirements as the statutes change over time.

The Treasurer and Assistant Treasurer(s) are authorized to invest District funds in accordance with these laws, subject to certain restrictions imposed by the District's Board of Directors. These authorized investments and restrictions are shown in Table "A", included below.

Whenever practical, a competitive process shall be used for the purchase and sale of securities.

The Treasurer and Assistant Treasurer(s) are authorized to invest in securities with terms or remaining maturities in excess of five years as part of the District's investment program, but no such investments are to be made without the concurrence of the Finance and Personnel Committee. Unless approved as described above, no investment will be made in any security (other than a security underlying a repurchase, reverse repurchase, or securities lending agreement) that at the time of the investment purchase, has a term remaining to maturity in excess of five years.

Any securities purchased will not have a forward settlement date exceeding 45 days from the time of investment. The investment term or remaining maturity is to be measured from the settlement date to final maturity.

Non-Compliant Investments:

For the purposes of this Investment Policy, a "non-compliant investment" is defined as an investment that does not adhere to the requirements in this policy's Table "A"-Authorized Investments and Restriction either at the time the investment is purchased or fell out of compliance at any point after it was purchased. If an investment becomes non-compliant, then the Treasurer shall notify the Finance & Personnel Committee and implement a disposition plan for the investment, if necessary.

Authorized Financial Institutions:

Only financial institutions designated as "primary dealers" by the Federal Reserve Bank of New York, or other dealers that qualify under United States Securities and Exchange Commission Rule 15C3-1 (uniform net capital rule), are authorized to provide investment services to the District. The Treasurer and Assistant Treasurer(s) may limit the number of dealers authorized to provide such services.

A copy of the District's annual investment policy shall be provided to each institution authorized by the Treasurer or Assistant Treasurer(s) to provide services to the District. Financial institutions shall acknowledge in writing that it has received the District's investment policy and that all persons handling the District's account have reviewed the policy.

All authorized financial institutions are required to provide electronic access to the financial statements.

Safekeeping and Custody:

All security transactions entered into by the District shall be conducted on a delivery-versus-payment (DVP) basis. All securities owned by the District shall be delivered to the District by book entry, physical delivery, or a third-party custodial agreement. Any third-party custodian shall be designated by the Treasurer, and all securities held by such custodian, including book entry and physical securities, shall be held in a manner that clearly establishes the District's right of ownership. The District's custodial agent shall meet the requirements of Government Code Section 53608. The District's deposits with LAIF or any other authorized investment pool shall be evidenced by the standard reporting requirements of LAIF or the investment pool.

Reporting:

The Treasurer shall file a monthly report with the Board of Directors at a public meeting that shows the status of the District's cash and securities, and all related investment transactions that occurred during the month. The status report shall also be filed with the District's General Manager and will include at least the following information:

- Type of investment
- Original cost
- Issuing institution
- Market value, including source
- Par amount
- Maturity date
- Coupon and/or yield

In addition, the status report shall include the portfolio's rate of return for the month, the average weighted life of the portfolio, a statement regarding the portfolio's compliance with the District's investment policy, and a statement regarding the District's ability to meet expenditure requirements over the following six months. (California Government Code Sections 53607 and 53646.)

The Treasurer or Assistant Treasurer(s) shall also file a quarterly report with the Board of Directors at a public meeting with respect to the District's real estate investments and any related transactions which occurred during such quarter. The real estate report will be structured to comply as closely as possible with the information requirements of California Government Code Section 53646.

Investment Policy Adoption and Amendments:

The Treasurer or Assistant Treasurer(s) shall submit an investment policy at least annually to the Board of Directors at a public meeting. (California Government Code Section 53646.) The policy shall be effective for the calendar year specified. If the Board of Directors does not approve an investment policy for any calendar year, then the investment policy for the previous calendar year shall remain in effect until a new policy is approved.

The District's Finance and Personnel Committee is authorized to make changes in the investment policy, as necessary, provided that such changes may only be more restrictive in nature. Any changes that would liberalize the investment policy shall be approved by the Board of Directors before becoming effective. Any changes in the investment policy by the Finance and Personnel Committee shall be reported to the Board of Directors at its next regular meeting.

Training and Continuing Education:

Treasury staff have a responsibility to invest the District's funds with professionalism, prudence, and accountability. In order to adhere to these high professional standards, all Treasury staff that are involved in the investment process are encouraged to complete at least 10 hours per year of continuing education programs related to cash and investment management.

TABLE "A" Authorized Investments and Restrictions*

* Minimum NRSRO credit ratings listed below include all modifiers (+/-)

INVESTMENT TYPE	DESCRIPTION	RESTRICTIONS
California State and Local Agency Bonds, Notes and Warrants	Registered state warrants, treasury notes or bonds. Any bonds, notes, warrants or other evidences of indebtedness of any local agency in California.	Limited to securities approved by the Finance and Personnel Committee.
U.S. Treasury and Agency Obligations	U.S. Treasury notes, bonds, bills or certificates of indebtedness, or those for which the full faith and credit of the United States are pledged for the payment of principal and interest. Also federal agency or U.S. government sponsored enterprise (GSE) obligations, participations, or other instruments.	No additional restrictions.
Registered treasury notes or bonds of California or other 49 United States	Registered treasury notes or bonds of any of the other 49 United States in addition to California, including bonds payable solely out of the revenues from a revenue-producing property owned, controlled, or operated by a state or by a department, board, agency, or authority of any of the other 49 United States, in addition to California.	Limited to states and/or agencies approved by the Finance and Personnel Committee.
Banker's Acceptances	Must be eligible for discount at the Federal Reserve Bank. May not exceed 180 days maturity or 40% of local agency funds. No more than 30% of local agency funds may be invested in banker's acceptances of any one commercial bank.	Limited to domestic and foreign banks approved by the Finance and Personnel Committee.
U.S. Dollar Denominated Senior Unsecured Unsubordinated Obligations	United States dollar-denominated senior unsecured unsubordinated obligations issued or unconditionally guaranteed by the International Bank for Reconstruction and Development, International Finance Corporation, or Inter-American Development Bank, with a maximum remaining maturity of five years or less, and eligible for purchase and sale within the United States. Must be rated "AA" or its equivalent or better by a nationally recognized statistical rating organization ("NRSRO"). Limited to 30% of local agency funds.	Limited to securities approved by the Finance and Personnel Committee.

Commercial Paper	Must be of "prime" quality of the highest	Limited to corporations
	ranking or of the highest letter and number rating as provided for by an NRSRO. Issuers must be organized and operating in the United States as a general corporation, have assets exceeding \$500 million, and has debt other than commercial paper, if any, that is rated "A" or its equivalent or better by an NRSRO. May not exceed 270 days maturity. Local agencies, that have less than \$100 million of investment assets under management may invest no more than 25% of their moneys in eligible commercial paper. Local agencies that have \$100 million or more of investment assets under management may invest up to 40% percent of their moneys in eligible commercial paper. A local agency may invest no more than 10% of its total investment assets in the commercial paper and the medium-term notes of any single issuer.	approved by the Finance and Personnel Committee.
Negotiable Certificates of Deposit	Issued by national or state-chartered banks, savings associations, federal associations, state or federal credit unions, or by a federally licensed or state-licensed branch of a foreign bank. Specified restrictions on credit unions for conflicts of interest. Limited to 30% of local agency funds.	Limited to domestic and foreign banks and thrift institutions approved by the Finance and Personnel Committee.
Repurchase and Reverse Repurchase Agreements	Repurchase agreements are limited to a term of one year or less, and securities underlying the agreement shall be valued at 102% or greater of the funds borrowed against the securities, with the value adjusted at least quarterly. Reverse repurchase agreements, including securities lending agreements, are limited to 20% of the base portfolio value and to terms of 92 days or less unless a minimum earning or spread for the entire term is guaranteed in writing. Securities being sold on reverse must be owned by the agency for at least 30 days prior to sale. Reverse repurchase agreements shall be made with primary dealers of the Federal Reserve Bank of New York, or nationally and state chartered banks with a significant banking relationship with the local agency.	All reverse repurchase agreements must have the prior approval of the Finance and Personnel Committee.

Medium Term Notes	All debt securities issued by U.S. organized and operating corporations or depository institutions licensed by the U.S. or any state and operating within the U.S. Notes must be rated "A" or its equivalent or better by an NRSRO. May not exceed five years maturity, 30% of local agency funds, and no more than 10% of its total investment assets in the commercial paper and the medium-term notes of any single issuer.	For depository institutions, same as shown under Negotiable Certificates of Deposit. For corporations, limited to those approved by the Finance and Personnel Committee.
Shares of Beneficial Interest	Issued by diversified management companies investing in securities and obligations as authorized by Cal. Gov. Code \$53601. Companies shall have the highest ranking or highest letter and numerical rating assigned by not less than two NRSROs, or shall have a registered and experienced investment advisor with assets under management in excess of \$500 million. Purchase price shall not include any commissions. Limited to 20% of funds of which no more than 10% may be with any one fund.	No additional restrictions.
Collateralized Negotiable Securities	Notes, bonds or obligations secured by a valid first priority security interest in securities specified in Cal. Gov. Code §53651. (Cal. Gov. Code §53601(n).) Collateral to be placed by delivery or bookentry into the custody of a trust company or trust department of a bank not affiliated with the issuer. Security interest perfected in accordance with Uniform Commercial Code or applicable federal regulations. Collateral requirements are the same as required to secure bank deposits made by local agencies as specified in Cal. Gov. Code §53652.	No investment in collateralized negotiable securities shall be made without the prior approval of the Finance and Personnel Committee.

Collateralized Mortgage Obligations and Asset- Backed Securities	Mortgage pass-through security, collateralized mortgage obligation, mortgage-backed or other pay-through bond, equipment lease-backed certificate, consumer receivable pass-through certificate, or consumer	No investment in collateralized mortgage obligations or asset-backed securities shall be made without the prior approval of
	receivable-backed bond. For these securities eligible for investment but not issued or guaranteed by the United States or a federal agency, the securities must have an "AA" rating or its equivalent as rated by an NRSRO, must have a maximum remaining maturity of five years or less, and may not exceed 20% of surplus funds.	the Finance and Personnel Committee.
Financial Futures and Options	Authorizes the investment in financial futures and financial option contracts in any of the investment categories contained in Cal. Gov. Code §53601.1	No investments in financial futures and financial option contracts are to be made without the prior approval of the Finance and Personnel Committee.
Prohibited Investments	A local agency shall not invest any funds in inverse floaters, range notes, mortgage derived interest-only strips, or any security that could result in zero interest accrual if held to maturity. However, a local agency may hold prohibited instruments until their maturity dates. Notwithstanding the prohibition above, a local agency may invest in securities issued by, or backed by, the United States government that could result in zero- or negative-interest accrual if held to maturity, in the event of, and for the duration of, a period of negative market interest rates. A local agency may hold these instruments until their maturity dates. This section shall remain in effect only until January 1, 2026, and as of that date is repealed. (Cal. Gov. Code §53601.6.)	No additional restrictions.
Local Agency Investment Fund	Permits a local agency to deposit funds with the State Treasurer for the purpose of investment in securities prescribed in Cal. Gov. Code §§16429.1 et seq.	No additional restrictions.

RESOLUTION 2023-___, ATTACHMENT "A"

Orange County Treasury Pool Inactive Public Deposits	Permits a local agency to deposit funds with the County Treasurer for investment in securities prescribed in Cal. Gov. Code §53635 or 53684. Deposits or contracts with Federal Reserve System banks insured by FDIC, savings associations or federal associations which are home loan bank members or insured by FSLIC, and state or federal credit unions. Specified restrictions on credit unions.	No investments are to be made with the Orange County Treasury Pool without the prior approval of the Board. No inactive public deposits are to be made without the prior approval of the Finance and Personnel Committee.
Public Finance Contracts	Includes interest rate swap agreements, currency swap agreements, forward payment conversion agreements, futures, or index-based agreements to hedge payment, currency, rate, spread or similar exposure. Requires certain determinations by governing body. (Cal. Gov. Code §§5920 et seq.)	The Board is authorized to approve the general parameters for swap transaction types, maximum notional amount(s) and maximum duration(s). The Finance and Personnel Committee shall structure specific parameters for individual transactions including notional amount, transaction timing, counterparty selection, index to be used and ISDA agreement approval. (Resolution 2003-36)
Real Estate Investments	Authorized to invest no more than 30% of the District's Replacement Fund in real estate located in Orange County. (Cal. Wat. Code §35912.)	Real estate investments shall be made in accordance with existing Board policies (Resolution 1990-30). All real estate investments must be individually approved by the Board.

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December 11, 2023 Prepared and

submitted by: C. Compton

Approved by: Paul A. Cook

CONSENT CALENDAR

IRWD GENERAL COUNSEL CONTRACT FOR 2024

SUMMARY:

IRWD's General Counsel provides legal services related to municipal law, transactional and non-complex issues, rate-setting, and other routine general counsel matters. Since 2020, IRWD has contracted with Hanson Bridgett for general counsel services; its current contract expires on December 31, 2023. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with Hanson Bridgett for general counsel legal services with a term of January 1, 2024, to December 31, 2024, for a not-to-exceed amount of \$1,235,000.

BACKGROUND:

IRWD has a team approach for legal services, dividing legal responsibilities among several law firms. The approach utilizes a General Counsel who provides legal services related to municipal law, transactional and non-complex issues, rate-setting, and other routine legal matters. The General Counsel also coordinates with IRWD's other legal counsel. IRWD's non-General Counsel legal firms provide services related to complex issues, complex litigation, and legal matters related to water resources and policy issues. Staff provides legal services management and legal service continuity, along with other duties.

In March 2018, the Board selected Lewis Brisbois & Smith LLP to provide general counsel services to the District, and named Claire Hervey Collins, who was with the firm at that time, to serve in the role of General Counsel for IRWD. On January 1, 2020, Ms. Collins transitioned her employment to the firm of Hanson Bridgett. Upon receiving notice that Ms. Collins was transitioning to Hanson Bridgett, the Board on December 11, 2019, appointed Hanson Bridgett to provide general counsel services to IRWD. It also renamed Ms. Collins to serve in the role of General Counsel for IRWD effective January 1, 2020.

Claire Hervey Collins continues to serve in the role of General Counsel for IRWD. As General Counsel, Ms. Collins, and on occasion other members of the Hanson Bridgett firm, provides general counsel legal services for IRWD focused on municipal law, transactional and noncomplex issues, and rate-setting. While Ms. Collins provides the majority of the legal services required by IRWD, Mr. Paul Beck assists Ms. Collins, serving as an Assistant General Counsel for IRWD to assist with the legal workload and to ensure continuity of service should Ms. Collins become unavailable.

Proposed Contract with Hanson Bridgett LLP:

The number of billable hours estimated for this 12-month period includes the estimated amount of time required to represent, advise, and counsel IRWD regarding matters related to municipal law, transactional and non-complex issues and rate-setting, and the estimated amount of time

Consent Calendar: 2024 General Counsel Contract

December 11, 2023

Page 2

required to coordinate with the District's other legal counsel. The total not-to-exceed value of the contract is proposed at \$1,235,000 – which is 7 percent higher than the 2023 contract. The proposed not-to-exceed value is based on the hourly rates listed below:

	2023 Rate	2024 Rate
Partners	\$455	\$485
Counsel / Senior Counsel	\$415	\$445
Associate / Other Attorneys	\$390	\$418
Practice Support Analyst	\$275	\$275
Paralegal / Law Clerk	\$225	\$275

Staff recommends that the Board authorize the General Manager to enter into a Professional Services Agreement with Hanson Bridgett. The proposed contract term would run from January 1, 2024, until December 31, 2024.

FISCAL IMPACTS:

The total not-to-exceed amount for the contract is \$1,235,000. Services associated with this contract will be charged to the Fiscal Year 2023-2024 and Fiscal Year 2024-2025 Operating Budgets, as appropriate. Legal services related to capital projects will be billed to the capital budgets, as appropriate.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH HANSON BRIDGETT LLP FOR GENERAL COUNSEL LEGAL SERVICES FOCUSED ON MUNICIPAL LAW, TRANSACTIONAL AND NON-COMPLEX ISSUES, AND RATE-SETTING WITH A TERM OF JANUARY 1, 2024, TO DECEMBER 31, 2024, AND A NOT-TO-EXCEED VALUE OF \$1,235,000.

LIST OF EXHIBITS:

Exhibit "A" – Hanson Bridgett LLP Summary of the Scope of Work and Proposed Hourly Rates

EXHIBIT "A"

HANSON BRIDGETT LLP SUMMARY OF THE SCOPE OF WORK AND PROPOSED HOURLY RATES

Summary of Scope of Work:

Hanson Bridgett LLP will provide general counsel legal services and representation to IRWD and its subsidiaries, and other affiliates. The firm will perform the work, duties, and responsibilities consistent with the position of general counsel for IRWD and its subsidiaries and other affiliates understanding that the firm's roles as general counsel will be to:

- 1. Provide expert legal advice to IRWD and its subsidiaries and other affiliates;
- 2. Independently represent IRWD and its subsidiaries and other affiliates in a variety of matters and forums; and
- 3. Develop and implement proactive legal strategies to position IRWD and its subsidiaries and other affiliates to best meet its legal, regulatory, and policy objectives.

The scope of the general counsel services provided by Hanson Bridgett to IRWD will consist of a broad range of legal services including regulatory and public policy tracking, interpretation, advice, counsel, legal representation and other services with respect to a variety of legal areas such as:

A. TYPICAL AREAS OF MUNICIPAL LAW, INCLUDING:

- 1. Agenda and Agenda Item Review;
- 2. Basic CEQA and Other Environmental Document Review;
- 3. Brown Act and Open Meeting Compliance;
- 4. Claims Processing;
- 5. Collections:
- 6. Cortese-Knox-Hertzberg Local Government Reorganization Act;
- 7. Election Procedures and Challenges;
- 8. Fair Political Practices Commission Regulations and Political Reform Act;
- 9. Joint Powers Authorities;
- 10. Non-complex Litigation;
- 11. Ordinance, Rule and Regulation Creation and Adoption;
- 12. Public Contracting and Prevailing Wage;
- 13. Public Records Act;
- 14. Public Works Bidding;
- 15. Real Property;
- 16. Records Retention and Destruction;
- 17. Review of Contracts and Other Legal Documents; and
- 18. Tort Claims.

HANSON BRIDGETT LLP SUMMARY OF THE SCOPE OF WORK AND PROPOSED HOURLY RATES (continued)

B. <u>Laws and regulations Governing California Water Districts, Including:</u>

- 1. California Government Code;
- 2. California Health and Safety Code;
- 3. California Water Code;
- 4. California Water District Code;
- 5. Clean Water Act;
- 6. Porter-Cologne Water Quality Control Act;
- 7. Sustainable Groundwater Management Act;
- 8. Safe Drinking Water Act;
- 9. Urban Water Management Planning Act; and
- 10. Other Water and Wastewater Laws and Regulations.

C. LAWS AND REGULATIONS RELATED TO WATER AND SEWER SERVICE RATE SETTING, INCLUDING:

- 1. Case law related to water and sewer service rates;
- 2. Proposition 26;
- 3. Proposition 218; and
- 4. Other statutes affecting water and sewer rates and charges.

D. COORDINATION AND MANAGEMENT OF SPECIAL COUNSEL

Hourly Rates through December 31, 2024:

Partners: \$485.00 per hour Counsel/Sr. Counsel: \$445.00 per hour Associates/Other Attorneys: \$418.00 per hour Practice Support Analysts: \$275.00 per hour Paralegals & Law Clerks: \$275.00 per hour

December 11, 2023

Prepared and

submitted by: C. Compton

Approved by: Paul A. Cook

CONSENT CALENDAR

VARIANCE TO THE LETTER OF ENGAGEMENT WITH FISHER PHILLIPS

SUMMARY:

IRWD retained Fisher Phillips for legal services related to human resources related litigation. Fisher Phillips has and continues to provide a high level of service to the District. Staff recommends that the Board authorize the General Manager, or his designee, to execute a variance to the letter of engagement with Fisher for an amount not-to-exceed \$600,000.

BACKGROUND:

The District has adopted a team approach that divides legal service responsibility for regular issues and matters among several law firms. To implement IRWD's approach, the Board authorized the General Manager to enter into agreements with different firms for legal services. One of the firms the District has retained is Fisher Phillips. The District executed a letter of engagement with Fisher Phillips on March 17, 2023 to provide legal services to the District related to human resources related litigation. Fisher Phillips has provided and continues to provide a high level of service to the District, specifically in handling the *Montejano v. IRWD*, *e. al.* litigation matter for the District. Staff recommends that the Board authorize the General Manager or his designee to execute a variance to the letter of engagement with Fisher Phillips for an amount not-to-exceed \$600,000.

FISCAL IMPACTS:

Legal services will be charged against the Fiscal Year Operating Budget, as appropriate. Legal services related to capital projects will be billed to the capital budgets, as appropriate.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was not reviewed by a committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER, OR HIS DESIGNEE, TO EXECUTE A VARIANCE TO THE LETTER OF ENGAGEMENT WITH FISHER PHILLIPS FOR LEGAL SERVICES RELATED TO HUMAN RESOURCES RELATED LITIGATION INCREASING THE NOT-TO-EXCEED VALUE OF THE CONTRACT BY \$600,000.

LIST OF EXHIBITS:

None.

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December 11, 2023 Prepared by: J. Zepeda Submitted by: W. Chambers

Approved by: Paul A. Cook

CONSENT CALENDAR

TEMPORARY STAFFING PROFESSIONAL SERVICES AGREEMENT VARIANCE

SUMMARY:

In February 2023, IRWD retained Operational Technical Services, LLC (OTS) to provide specialized temporary technical staff who were assigned to the Biosolids and Energy Recovery Facility to assist with staffing needs during the recruitment process to fill vacant operator positions. Staff recommends that the Board authorize the General Manager to execute a variance for an amount not-to-exceed \$200,000 with OTS LLC for additional temporary staffing services.

BACKGROUND:

The Biosolids and Energy Recovery Facility is a complex operation that processes solids from the Michelson Water Recycling Plant. Staff assigned to operate the facility require certification(s) from the State Water Resources Control Board. Recently, recruiting and filling vacant positions with qualified individuals has become increasingly challenging.

OTS is a company that specializes in providing temporary staff that meets the experience and certification requirements appropriate for the operation and maintenance of the Biosolids Facilities. IRWD retained OTS in February 2023 to provide staff while IRWD pursued its recruitment of full-time staff. As the duration for staffing continued longer than initially expected, the total fees exceeded the original contract amount. Staff now recommends that the Board authorize the General Manager to execute a variance for an amount not-to-exceed \$200,000 with OTS LLC for temporary staffing services.

FISCAL IMPACTS:

The operational and maintenance staffing costs from OTS for the Biosolids Project are included in the FY 23-24 and FY 24-25 Board-adopted budgets. The initial contract amount with OTS was \$200,000, and one variance for \$200,000 has already been executed.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

No. 11 Temporary Staffing Variance.docx

Consent Calendar: Temporary Staffing Professional Services Agreement Variance December 11, 2023

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RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A VARIANCE FOR AN AMOUNT NOT-TO-EXCEED \$200,000 WITH OPERATIONAL TECHNICAL SERVICES LLC FOR TEMPORARY STAFFING SERVICES.

EXHIBITS:

None

December 11, 2023

Prepared by: T. Bonkowski / M. Cortez

Submitted by: K. Burton

Approved by: Paul A. Cook

ACTION CALENDAR

36-INCH TRUNK SEWER PROTECTION WITHIN SAN DIEGO CREEK AT STATE ROUTE 133 CONSTRUCTION AWARD

SUMMARY:

The 36-inch Trunk Sewer Protection within San Diego Creek at State Route 133 project will install a temporary sanitary sewer bypass system to maintain IRWD's sewer conveyance capabilities during the construction of a California Department of Transportation (Caltrans) bridge widening project over San Diego Creek. Since IRWD's 36-inch trunk sewer is near the proposed extensions of the bridge pier foundation, Caltrans' contract includes installing protective measures for the sewer. Should Caltrans' construction activities damage IRWD's 36-inch trunk sewer, IRWD's project will remove and replace the damaged portion of sewer. Staff recommends that the Board:

- Authorize a budget increase in the amount of \$1,530,000, from \$1,223,000 to \$2,753,000 for Project 12125;
- Authorize the General Manager to execute a construction contract with Charles King Company in the amount of \$2,593,600 for the 36-inch Trunk Sewer Protection within San Diego Creek at State Route 133; and
- Based on the Caltrans final Mitigated Negative Declaration, the Board in its independent
 judgement and analysis finds that with mitigation there is no substantial evidence that the
 project will have a significant effect on the environment, and authorize staff to post and
 file a notice of determination.

BACKGROUND:

Caltrans notified IRWD in October 2021 of its bridge widening project over the San Diego Creek that will add a second lane to the State Route 133 South to 405 North Bound Connector (offramp) in Irvine. A site map is provided as Exhibit "A". In response, staff informed Caltrans that IRWD has an existing 36-inch vitrified clay pipe sewer in the immediate vicinity of Caltrans' proposed widened bridge. IRWD constructed the 36-inch sewer in 1976 within Caltrans' bridge right-of-way (ROW) without an easement from Caltrans. Since Caltrans has prior rights, IRWD is responsible for the relocation of the sewer to accommodate the new bridge expansion.

Sewer Protection Design:

After receiving Caltrans' initial bridge widening design, staff retained GCI Construction in January 2022 to complete multiple pothole excavations along the sewer's alignment, which confirmed the sewer's concrete "jacket" that was shown on the record drawings. Besides exposing the top of the concrete jacket, GCI also exposed the jacket's limits to each side of the sewer. Staff then retained Johnson Frank Surveying to map the sewer and provided this

Action Calendar: 36-inch Trunk Sewer Protection within San Diego Creek at SR133

Construction Award December 11, 2023

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information to Caltrans. For over a year, staff worked with Caltrans to devise an approach to enable Caltrans to construct the widened bridge without impacting IRWD's sewer.

The approach consists of several components:

- 1) Caltrans made several changes to its pier foundation design to provide as much clearance as possible to the sewer;
- 2) Caltrans' plans include protect-in-place measures for IRWD's sewer, e.g. 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;
- 3) A pumped bypass sewer system will be operated during Caltrans' construction period;
- 4) After construction of the pier foundation extensions, IRWD would perform a video inspection of the sewer to confirm any evidence of pipe damage or failure; and
- 5) Caltrans would provide IRWD a construction window to complete a repair of the sewer should any damage be observed in the inspection video.

IRWD retained Woodard & Curran (W&C) to develop a plan to protect the sewer pipeline in place during Caltrans' construction. These measures were incorporated into Caltrans improvement plans, and IRWD executed an agreement with Caltrans to implement the protect-in-place measures and IRWD would pay Caltrans \$70,000 for constructing the measures. In addition to the protect-in-place measures, W&C completed the design of the bypass pumping system to be in place just prior to and during Caltrans' construction of the bridge pier foundations. Should the bridge construction damage the sewer, W&C also provided a sewer repair design as part of the plans.

Construction Bid:

In coordination with Caltrans' project schedule (Caltrans recently awarded its construction contract for the bridge widening), W&C completed the sewer protection plans in October 2023 and the project was advertised to a select bidders list of 20 pipeline and bypass pumping specialty contractors. The bid opening was held on November 16, 2023, and one bid was received from Charles King Company (CKC) in the amount of \$2,593,600; other contractors likely decided not to bid against CKC, as they are considered the leader in this specific area. Bid information is attached as Exhibit "B" and provided below:

Bidder	Bid Amount
Charles King Company	\$2,593,600
Engineer's Estimate	\$1,331,000

CKC's bid is nearly double the engineer's estimate of \$1,331,000. The bid items with the largest cost differences were items related to sewer bypassing, along with the dewatering, trench safety, excavation, and replacement pipe costs for the existing sewer (should it be damaged). Staff also attributes the overall complexity and uncertainty of working with Caltrans and within the creek,

Action Calendar: 36-inch Trunk Sewer Protection within San Diego Creek at SR133

Construction Award December 11, 2023

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and the tight schedule for the project to be completed only in the "dry season" from May 1 through September 30 as other factors for the difference between the bid and engineer's estimate.

CKC is very well qualified to perform the bypass work and has worked on several recent IRWD projects with high-capacity sewer bypasses including the Harvard Avenue Trunk Sewer Diversion Structure Rehabilitation and the Sewer Siphon Improvements. Staff recommends that the Board authorize the General Manager to award a construction contract to CKC in the amount of \$2,593,600.

FISCAL IMPACTS:

Project 12125 is included in the FY 2023-24 Capital Budget. The original budget was established to perform the design and construct the bypass and to protect-in-place the existing sewer. Approximately 60% of the total construction bid (\$1,597,200) is for bid items that will only be required if the existing sewer is damaged during Caltrans' bridge work. It is unlikely that these costs will materialize since the protect-in-place measures constructed by Caltrans should prevent damage to the pipe; the budget adjustment includes these costs to address the potential worst-case scenario. A budget increase is required to fund the construction phase of the project as shown in the table below:

Project	Current	Addition	Total
No.	Budget	<reduction></reduction>	Budget
12125	\$1,223,000	\$1,530,000	\$2,753,000

ENVIRONMENTAL COMPLIANCE:

This project is subject to CEQA. 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.

COMMITTEE STATUS:

Construction awards are not routinely taken to the Committee prior to submittal to the Board.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$1,530,000, FROM \$1,223,000 TO \$2,753,000, AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH CHARLES KING COMPANY IN THE AMOUNT OF \$2,593,600 FOR THE 36-INCH TRUNK SEWER PROTECTION WITHIN SAN DIEGO CREEK AT STATE ROUTE 133, PROJECT 12125; AND THAT BASED ON THE CALTRANS FINAL MITIGATED NEGATIVE DECLARATION, THE BOARD IN ITS INDEPENDENT JUDGEMENT AND ANALYSIS

Action Calendar: 36-inch Trunk Sewer Protection within San Diego Creek at SR133

Construction Award December 11, 2023

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FINDS, THAT WITH MITIGATION, THERE IS NO SUBSTANTIAL EVIDENCE THAT THE PROJECT WILL HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT; AND AUTHORIZE STAFF TO POST AND FILE A NOTICE OF DETERMINATION.

LIST OF EXHIBITS:

Exhibit "A" - Project Location Map

Exhibit "B" – Bid Results

Exhibit "C" – IS/MND for the Caltrans State Route 133 Operational Improvements

Exhibit A -Trunk Sewer Protection Within SD Creek At State Route 133 Location Map

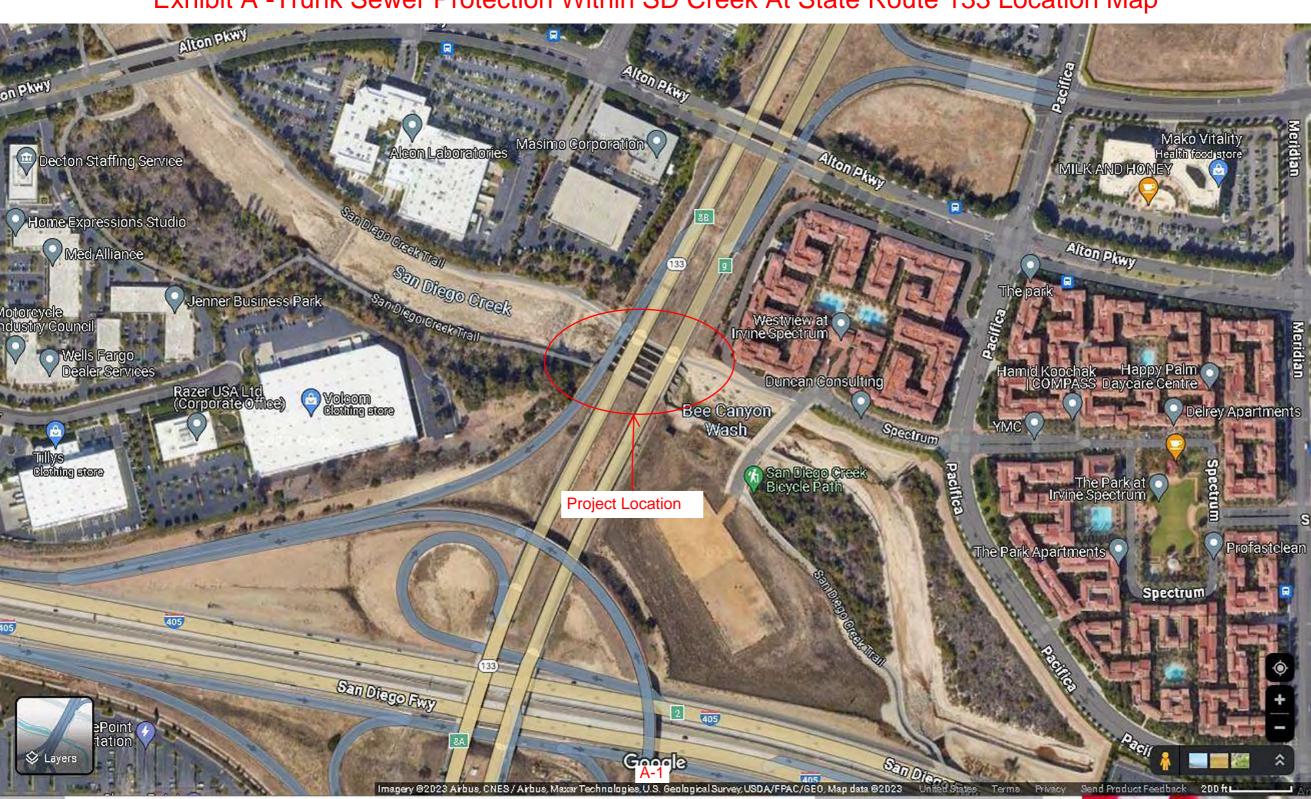


Exhibit A -Trunk Sewer Protection Within SD Creek At State Route 133 Bypass Exhibit



Exhibit "B"

Bid Results

Bidder Details

Vendor Name Charles King Company Address 2841 Gardena Ave

Signal Hill, California 90755

United States

Respondee Steve Radaich

Respondee Title VP

Phone 562-426-2974 Email estimating@ckc.co

Vendor Type CADIR

License #

CADIR 1000001537

Bid Detail

Bid Format Electronic

Submitted 11/16/2023 9:19 AM (PST)

Delivery Method Bid Responsive

Bid Status Submitted Confirmation # 353147

Respondee Comment

Required forms uploaded with copy of bid bond. Original bid bond and declaration was submitted in person to the District offices today.

Buyer Comment

Attachments

File Title	File Name	File Type
Bid docs for upload pdf	Bid docs for upload.pdf	Bid Form

Subcontractors

Showing 1 Subcontractor

Name & Address	Desc	License Num	CADIR	Amount	Type
Performance Pipeline Technologies 5292 Systems Dr Huntington Beach, California 92649	sectional liner, clean/CCTV	825824	PW-LR-1000561121	\$163,375.00	CADIR

Line Items

Discount Terms No Discount

tem Item Type	Item Description	иом	QTV	Unit Price	Line Total	Response Commen
BASE BID ITEMS					\$2,593,600.00	
	Mobilization/Demobilization, Furnishing Contract Bonds and Project Permits, Temporary Traffic Controls, Temporary Facilities, Project Closeout, and Cleanup	LS	1	\$98,000.00	\$98,000.00	Yes
	installation, Testing, and Removal of Sanitary Sewer Bypass System	LS	1	\$227,000.00	\$227,000.00	Yes
	Rental of Sanitary Sewer Bypass System Equipment and Materials for Caltrans Bridge Pier Construction Work	Rent Cycle	8	\$21,000.00	\$168,000,00	Yes
	Operation and Maintenance of Sanitary Sewer Bypass System During Caltrans Bridge Pier Construction Work	Days	32	\$13,200.00	\$422,400.00	Yes
	Sewer Cleaning and CCTV Inspection	LS	i.	\$79,000.00	\$79,000.00	Yes
	Sewer Removal and Replacement	LF	100	\$4,260.00	\$426,000.00	Yes
	Sewer End Connections	LS	1	\$59,000.00	\$59,000.00	Yes
	Trench Safety Measures for Sewer Removal and Replacement	LS	1	\$46,000.00	\$46,000.00	Yes
	Dewatering of Excavations for Sewer Removal and Replacement	LS	1	\$238,000.00	\$238,000.00	Yes
a	CIPP Short Liner (up to 10 feet per occurrence) for 36-inch VCP Trunk Sewer Spot Repair	EA	5	\$37,000.00	\$185,000.00	Yes
t	Operation and Maintenance of Sanitary Sewer Bypass System for Sewer Removal and Replacement and CIPP Spot Repairs	Days	36	\$13,200.00	\$475,200.00	Yes
2	Rental of Sanitary Sewer Bypass System Equipment and Materials for Sewer Removal and Replacement and CIPP Spot Repairs	Rent Cycle	8	\$21,000.00	\$168,000.00	Yes
3	Maintain Redline Markup Set of Drawings and Submit Final Redline Markup Set	LS	1	\$2,000.00	\$2,000.00	Yes
DDITIVE AND DEDU	TIVE BID ITEMS				\$0.00	
4	ADDITION (+) OR DEDUCTION (-)	LS	1	\$0.00	\$0.00	Yes

Line Item Subtotals

Section Title		Line Total
BASE BID ITEMS		\$2,593,600.00
ADDITIVE AND DEDUCTIVE BID ITEMS		\$0.00
	Grand Total	\$2,593,600.00

Exhibit "C"

SEE DISTRICT SECRETARY TO OBTAIN A COPY OF THE

CAL RANS NEPA/CEQA RE-VALIDATION FORM PROVIDED IN THE FOLLOWING LINK:

\\Oesfs\oesdata\MEDIA\nss\OESDATAVL\sc\Share\BOARD\DEC EMBER\2023\Ex C Caltrans SB 133 Widening MND.pdf Note: This page is intentionally left blank.



DIST-CO-RTE: 12-ORA-133	
PM/PM: 8.3/M9.3	
EA or Fed-Aid Project No.: 0N890 (12140)	00130)
Other Project No. (specify): N/A	
Project Title: STATE ROUTE 133 OPERA	TIONAL IMPROVEMENTS
Environmental Approval Type: MND/CE 3	326
Date Approved: 3/24/2020	
Reason for Consultation (23 CFR 771.129 ⊠ Project proceeding to next major federal ⊠ Change in scope, setting, effects, mitigat □ 3-year timeline (EIS only) □ N/A (Re-Validation for CEQA only)	approval
Description of Changed Conditions:	ions continuation page and project is proceeding to
prepared. ☐ The original environmental document or C	CFR 771.111(h)(3)) □ Yes □ No valid. CFR 771.111(h)(3)) □ Yes □ No s needed. □ Yes □ No
CONCURRENCE WITH NEPA CONCLUSION I concur with the NEPA conclusion above. Smita Deshpande Signature: Environmental Branch Chief Signature: Project Manager/DLAE	4/25/2023 Date April 25, 2023 Date

Revised May 2020 Page 1 of 4

CEQA CONCLUSION (Only mandated for proj	ects on the State Hi	gnway System.)
 ☑ Original document remains valid. No furt ☐ Only minor technical changes or addition addendum has been or will be prepared will be attached. It need not be circulate 	ns to the previous $\mathfrak c$ and is \square included	document are necessary. \Box An on the continuation sheets or \Box
☐ Changes are substantial, but only minor previous document adequate. A Supple and it will be circulated for public review	mental environme	ntal document will be prepared,
☐ Changes are substantial, and major revise Subsequent environmental document we review. (CEQA Guidelines, §15162) (Specify type of subsequent document, e.g.	ions to the current ill be prepared, and	document are necessary. A it will be circulated for public
☐ The CE is no longer valid. New CE is need		
CONCURRENCE WITH CEQA CONCLUSION I concur with the CEQA conclusion above.	<u>I</u>	
Smita Deshpande	4/25/2023	
Signature: Environmental Branch Chief	Date	_
12ng L	April 25, 2023	
Signature: Project Manager/DLAE	Date	_

Revised May 2020 Page 2 of 4

CONTINUATION SHEET(S)

Changes in project design, e.g., scope change; a new alternative; change in project alignment.

New work includes replacement of approximate 175' of the existing Reinforced Concrete Channel (RCC) with a Reinforced Concrete Box on both sides of Barranca On-ramp loop to SB Route 133, removal of existing MBGR and replacement with concrete curb (type A2-8) at Barranca Parkway On-ramp Loop to SB SR-133, converting of 3rd lane on SB SR-133 from Hot Mix Asphalt (HMA) to Continuously Reinforced Concrete Pavement (CRCP) from station 9057+30 to 9089+06, removal and replacement of existing Rock Slope Protection (RSP) at the San Diego Creek Bridge (55-0290) between Pier 4 and 5 with Engineered Streambed Material (ESM) to create a low-flow channel; within the entire upstream area of San Diego creek, there would be removal and replacement of existing materials (RSP and/or native materials) with Engineered Streambed Material (ESM) to create a cutoff wall. This design modification is limited from the State Right of Way line to the pier noses. Temporary sewer line bypass is proposed by Irvine Ranch Water District (IRWD) during San Diego Creek bridge (55-0290L) construction. The new work referenced in this revalidation are Design Components 25-29 in the Supplemental Project Report (SPR) dated April 2023. Design component No. 25 and 26 were added per the recommendation of District Safety Engineer. Design component No. 27 was added due to lifecycle analysis of pavement durability and cost effectiveness of maintaining of the CRCP pavements versus asphalt concrete structure of the road section (see attachment Project Plans). Design component No. 28 was added per California Department Fish and Wildlife requirement. Component No. 29 is proposed due to the existing sewer line is very closed to the proximity of bridge footing construction. The project is proceeding to the next major federal approval.

Changes in environmental setting, e.g., new development affecting traffic or air quality.

No changes in environmental settings.

Changes in environmental circumstances, e.g., a new law or regulation; change in the status of a listed species.

No changes in environmental circumstances.

Changes to environmental impacts of the project, e.g., a new type of impact, or a change in the magnitude of an existing impact.

No changes to environmental impacts of the project.

Changes to avoidance, minimization, and/or mitigation measures since the environmental document was approved.

Additional AMMMS will be included in the updated ECR as per Amended Permits.

Revised May 2020 Page 3 of 4

Changes to environmental commitments since the environmental document was approved, e.g., the addition of new conditions in permits or approvals. When this applies, append a revised Environmental Commitments Record (ECR) as one of the Continuation Sheets.

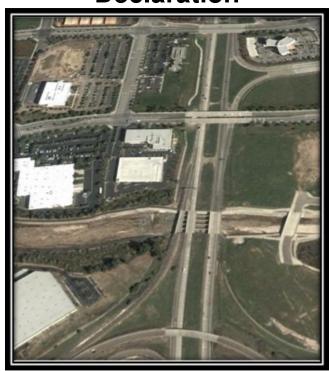
The ECR will be updated accordingly to capture changes/additions in permits and approvals and will be attached.

Revised May 2020 Page 4 of 4

State Route 133 Operational Improvements

ORANGE COUNTY, CALIFORNIA DISTRICT 12 – ORA – 133 (PM 8.3/ M9.3) EA 0N890 / 1214000130

Initial Study with Mitigated Negative Declaration



Prepared by the State of California, Department of Transportation



March 2020

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General Information About this Document

What's in this document:

The California Department of Transportation (Caltrans), as assigned by the Federal Highway Administration, has prepared this Initial Study with a Mitigated Negative Declaration for the proposed project located in Orange County, California. Caltrans is the lead agency under the California Environmental Quality Act (CEQA). The document tells you why the project is being proposed, what alternatives we have considered for the project, how the existing environment could be affected by the project, the potential impacts of each of the alternatives, and the proposed avoidance, minimization, and/or mitigation measures. The Initial Study circulated to the public for 30 days between January 7th, 2020 and February 6th, 2020. Comments received during this period are included in Appendix I. Elsewhere throughout this document, a vertical line in the margin indicates a change made since the draft document circulation. Minor editorial changes and clarifications have not been so indicated. Additional copies of this document and the related technical studies are available for review at the Caltrans District Office, 1750 E. Fourth Street, Santa Ana, CA. 92705.

For individuals with sensory disabilities, this document is available in Braille, large print, on audiocassette, or computer disk. To obtain a copy in one of these alternate formats, please call or write to Caltrans District 12, Division of Environmental Analysis, 1750 East 4th Street, Suite 100, Santa Ana, California 92705, Attn: Bahar Heydari; (657) 328-6155 (voice), or use the California Relay Service, 1 (800) 735-2929 (TTY), 1 (800) 735-2922 (voice), or 711.

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Construct new auxiliary lane on SB SR-133 from NB I-405 connector (PM 8.3) to SB I-5 connector (PM 9.3) and extend number three lane on SB SR-133 approximately 300 feet south of the San Diego Creek, in the City of Irvine.

INITIAL STUDY WITH MITIGATED NEGATIVE DECLARATION

Submitted Pursuant to: (State) Division 13, California Public Resources Code

THE STATE OF CALIFORNIA Department of Transportation

Responsible Agency:

California Transportation Commission

March 24, 2020

Chris Flyn

Deputy District Director
California Department of Transportation

CEQA Lead Agency

The following person may be contacted for more information about this document:

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MITIGATED NEGATIVE DECLARATION

Pursuant to: Division 13, Public Resources Code

State Clearinghouse Number: 2020010158

DIST-CO-RTE-PM: 12-ORA-133 PM 8.3/M9.3

EA: 0N890 (1214000130)

<u>Project Description</u>: Construct new auxiliary lane on Southbound (SB) SR-133 from Northbound (NB) I-405 connector (PM 8.3) to SB I-5 Connector (PM 9.3).

Determination

An Initial Study has been prepared by the California Department of Transportation (Caltrans), District 12.

On the basis of this study it is determined that the proposed action with the incorporation of the identified mitigation measures will not have a significant effect on the environment for the following reasons:

PAL-1: Some of these excavation activities would occur in deposits that are sensitive for paleontological resources. As such, excavation for some of these construction activities may have the potential to significantly impact paleontological resources. However, with implementation of Measure **PAL-1**, which would require the preparation and implementation of a Paleontological Mitigation Plan (PMP), potentially significant impacts to geology and soils (paleontological resources) would be reduced to a less than significant level.

Signature

Chris Flynn

Deputy District Director

Division of Environmental Analysis

Caltrans District 12

March 24, 2020 Date This page intentionally left blank

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Chapter 1 – Proposed Project

1.1 Introduction

The California Department of Transportation (Caltrans) proposes an operational improvements project on State Route 133 (SR-133) from 0.2 miles north of Route 133/405 separation (PM 8.3) to Irvine Center Drive Overcrossing (PM M9.3) in the City of Irvine, in the County of Orange. The project proposes to construct new auxiliary lane on southbound (SB) SR-133 from NB I-405 connector to SB I-5 connector. This new aux lane will become the 2nd lane on NB I-405 Connector. The number 3 lane on SB SR-133 will be extended approximately 300 feet south of San Diego Creek to match existing roadway pavement. Caltrans is the Lead Agency under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). An Initial Study (IS) with proposed Mitigated Negative Declaration (MND) has been prepared pursuant to CEQA and a Categorical Exclusion will be prepared pursuant to NEPA. Figures 1-1 shows the project location map.

This proposed project is included in the Southern California Association of Governments (SCAG) 2016/2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and the 2019 Federal Transportation Improvement Program (FTIP) (RTIP/FTIP ID # ORA001105) listed as Grouped Project for Safety Improvements. (see Appendix E). The FTIP is included by reference in the Certified Federal Statewide Transportation Improvement Program (FSTIP). This project is to be funded from SHOPP under program code 20.10.201.310 Operational Improvements Program, for funding in 2021/2022 fiscal year.

SR-133 is a north-south route located completely within Orange County. It provides access between the south coast of Orange County and the Irvine area. The total length of SR-133 is 13.73 miles. This includes 4.21 miles of the east leg of the Eastern Transportation Corridor which is a tolled facility. SR-133 passes through the cities of Laguna Beach, Irvine, and unincorporated Orange County. While the route lies completely within the urban boundary of Orange County, much of the land surrounding the route is designated as a wilderness preserve, with the exception of the downtown Laguna Beach and Irvine Spectrum areas. SR-133 operates as a conventional highway, an expressway, controlled access freeway, and toll road.

Within the project limits, SR-133 is mainly a four-lane freeway with various widths and unpaved medians. SB SR-133, north of I-5, has two lanes which become four lanes when it joins with the SB I-5 connector. The fourth lane of SB SR-133 ends at the Barranca Parkway on-ramp and the single lane on-ramp from Barranca Parkway merges with the third lane of SB SR-133, eventually exiting at the NB I-405 connector.

A concrete channel runs along the SB SR-133 roadbed, and San Diego Creek crosses under the freeway north of the I-405 connector.

Purpose and Need

<u>Purpose:</u> The purpose of this project is to enhance traffic operations and flow and shorten queue length of vehicles on SR-133 between SB I-5 and NB I-405 connectors by providing a new auxiliary lane and extend the number 3 lane on SB SR-133.

Need: This segment of SB SR-133 is operating under severe congestion during morning peak hours. The number three lane of SB SR-133 experiences long traffic queues which back up all the way to the SB I-5 connector and the SB SR-133 mainline (north of the SB I-5 connector), and restrict traffic flow.



Figure 1-1: Project Location Map

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1.2 Project Description

This section describes the proposed action and the project alternatives that were developed to meet the identified purpose and need of the project, while avoiding or minimizing environmental impacts.

Build Alternative:

This alternative proposes to improve operations and safety of this facility by constructing a new auxiliary lane on SB Rte-133 from the SB I-5 connector to the NB I-405 connector. This proposed auxiliary lane will become the second lane on the NB I-405 connector. This alternative also proposes to extend the number three lane on SB Rte-133 approximately 300 feet south of San Diego Creek to match the existing roadway pavement. Project work activities improvements include the following:

- 1. Construct additional asphalt concrete pavement to provide a twelve-foot auxiliary lane from the SB I-5 connector to NB I-405 connector and twelve-foot lane from the gore area to 300 feet south of San Diego Creek.
- 2. Construct additional asphalt concrete pavement to provide a second twelvefoot lane on the SB Rte-133/NB I-405 connector.
- 3. Realign the Barranca Parkway (Pkwy) loop on-ramp and reconstruct the ramp entrance. Convert the existing HOV lane to GP lane, reinstall the existing ramp meter system, reconstruct loop detectors, and modify the MGS along the on-ramp left shoulder if needed.
- 4. Reconstruct maintenance vehicle pullouts.
- 5. Construct tie back walls at Barranca Pkwy OC and Alton Pkwy OC.
- 6. Construct approximately 472 feet long retaining wall (retaining wall No. 55) from the end of San Diego Creek off-ramp bridge (55-0290F) towards North.
- Construct approximately 210 feet long retaining wall (retaining wall No. 61) from the beginning of San Diego Creek off-ramp bridge (55-0290F) towards South.
- 8. Construct approximately 512 feet long retaining wall (retaining wall No. 46) along the off-ramp from SB SR-133 to I-405. (The limits will be finalized once district provided the necessary information to Structures.).
- Replace approximately 520 ft of the existing Reinforced Concrete Channel (RCC) with a Reinforced Concrete Box (RCB) between Barranca Pkwy and Alton Pkwy.
- 10. Relocate and modify two existing overhead signs to accommodate pavement widening.
- 11. Remove and replace light poles along shoulder of SB Rte-133 and Barranca Pkwy on-ramp.
- 12. Remove and replace signing as needed.
- 13. Construct approximately 500 feet long of MGS between retaining wall No. 62 and the tie back wall at Alton Pkwy OC.
- 14. Remove existing MBGR and end treatments at the gore area of SB Rte-133 and SB Rte-133/NB I-405 connector.

- 15. Construct approximately 1200 square feet of additional bridge pavement, construct bridge rail with 20:1 taper and install alternative safety device to shield the end of bridge railings beyond the gore area of SB Rte-133 and SB Rte-133/NB I-405 connectors.
- 16. Relocate 3 drainage inlets along right shoulder of SB Rte-133 and 2 drainage inlets along right shoulder of SB Rte-133/NB I-405 connector.
- 17. Refresh all striping and markers.
- 18. San Diego Creek Left Bridge (55-0290L) will be widened to cover the gore area. Bridge Super-Structure will be constructed to accommodate the new lane configuration.
- 19. San Diego Creek off-ramp bridge (55-0290F) will be widened by 14.5 feet. New Sub-Structure and Super-Structure will be constructed to accommodate the new lane configuration.
- 20. Approach and departure slabs, paving notch and joint seals will be added at the left bridge (55-0290L) and the off-ramp bridge (55-0290F).
- 21. Existing Barriers, Type 25 at the Left Bridge (55-0290L) and the Off-Ramp Bridge (55-0290F) will be replaced with Concrete Barrier Type 836.
- 22. Rock Slope Protection (RSP) will be replaced along Piers and Abutments of San Diego Creek Off-Ramp Bridge (55-0290F) Widening for a length of approximately 15 feet and extend 10 feet beyond the bridge widening on downstream side. The RSP will be placed 6 feet below the Top of Pile Cap between the Piers/Abutment footings and flush with the footings and adjacent ground. The RSP used should be ½ ton (24 inches in diameter) installed in a pre-excavated 6-foot hole.
- 23. TCEs are needed for constructing RCB, bridge widening.
- 24. Clearing and grubbing
- 25. Highway planting
- 26. Replace damaged landscape irrigation in kind where needed between Irvine Boulevard Over-Crossing to Barranca Parkway on-ramp.

The project scope will include the following nonstandard design feature, a 500-foot long 2:1 side slope on SB Rte-133 between Alton and Barranca Pkwy, 2:1 slope in front of retaining wall No. 46, 55, and 62. Per the HDM 304.1, new and modified embankment slopes should be 4:1 or flatter.

Other Project Elements (Standardized Project Measures)

The Build Alternative contains several standardized project measures that are employed on most, if not all, Caltrans projects. The use of these measures with the Build Alternative is described in more detail in Chapter 2 of this Initial Study as Project Features (PF) are numbered. For example, a Project Feature applicable to water quality would be titled and listed as PF-WQ-1.

Air Quality

Caltrans Standard Specifications in Section 14-9 Air Quality

PF-AQ-1: The construction contractor must comply with Caltrans Standard Specification in Section 14-9, Air Quality, which specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and ordinances.

Biology

- Caltrans Standard Specification 14-6.03B Bird Protection
 - PF-BIO-1 Caltrans Standard Specification 14-6.03B Bird Protection. Nesting Bird Season: To avoid impacts to any nesting birds, ground disturbance and vegetation removal that occurs during the nesting bird season (February 1 September 30) will require nesting bird surveys by The Caltrans Biologist; the Caltrans biologist will be contacted at least one week prior to any construction activities to schedule a survey. If nesting birds are found, the biologist will create a buffer zone and Environmentally Sensitive Area (ESA) fence will be placed around the buffer zone. No construction work shall occur within the buffer zone until the nest is no longer active and all young birds have fledged.
 - PF-BIO-2 Comply with Executive Order Number 13112: Invasive Species. Vegetation species known to be invasive in the state of California will not be installed (e.g. Mexican fan palm, pampas grass, tree of heaven, etc.). An invasive plant species list can be found at the California Invasive Plant Inventory Council (Cal-IPC) website http://www.cal-ipc.org/paf/. The Landscape Architect will coordinate with the Caltrans Biologist to ensure an appropriate plant palette is created for this project. -During construction, the contractor shall inspect and clean construction equipment at the beginning of each day and prior to transporting equipment into the creek. During construction, soil and vegetation disturbance will be minimized to the greater extent feasible. Contractor shall use weed-free straw and fiber rolls to use for erosion control During construction, the contractor shall ensure that all material stockpiled within the creek is sufficiently watered and covered to prevent growth of invasive plants. During construction, gravel and rock will be obtained from weed free source.

Cultural

Caltrans Standard Specification 14-2.03A: Discovery of Cultural Materials.

PF-CUL-1: If cultural materials are discovered during construction activities, the construction Contractor will divert all earthmoving activity within and around the immediate discovery area until a qualified archaeologist can assess the nature and significance of the find. At that time, coordination will be maintained with the California Department of Transportation District 12 Environmental Branch Chief or the District 12 Native American Coordinator to determine an appropriate course of action

• Caltrans Standard Specification 14-2.03A: Discovery of Human Remains.

PF-CUL-2 If human remains are discovered during construction activities, California State Health and Safety Code (H&SC) Section 7050.5 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the Orange County Coroner shall be contacted. If the remains are thought to be Native American, the Coroner will notify the Native American Heritage Commission (NAHC), who pursuant to California Public Resources Code (PRC) Section 5097.98, will then notify the Most Likely Descendant (MLD). At that time, the persons who discovered the remains will contact the Caltrans District 12 Environmental Branch Chief or the District 12 Native American Coordinator so that they may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of California PRC 5097.98 are to be followed as applicable.

Geology/Soil/Seismicity/Topography

• Caltrans Standard Specifications 48-2.02. B and Section 19 Earthwork General:

PF-GEO-1: The project will comply with the most current Caltrans procedures and design criteria regarding seismic design to mitigate any adverse effects related to seismic ground shaking. Earthwork will be performed in accordance with Caltrans Standard Specifications, Section 19, which require standardized measures related to compacted fill, over-excavation, and re-compaction, among other requirements. Moreover, Caltrans Highway Design Manual (HDM) Topic 113, requires the project engineer to review a Geotechnical Design Report, if any, to ascertain the scope of geotechnical involvement for a project.

Paleontology

Caltrans Standard Specification 14-7.03:

PF-PAL-1: If unanticipated paleontological resources are discovered all work within 60 feet of the discovery must cease and the construction resident engineer must be notified. Work cannot continue near the discovery until authorized.

Hazardous Materials

Caltrans Standard Specification 14-10:

PF-HAZ-1: Solid Waste Disposal and Recycling Section 14.10 of CT 2018 SSPs. to reduce GHG emissions and potential climate change impacts.

Caltrans Standard Specification 14-11.12:

PF-HAZ-2: Should construction activities result in the disturbance of traffic striping and pavement marking materials, the generated wastes would be disposed of at an appropriate permitted disposal facility as determined by a lead specialist

 Caltrans Standard Specification 13-4.03E(2) and Unknown Hazards Procedures in Caltrans Construction Manual (July 2017):

PF-HAZ-3: During construction, the construction contractor will monitor soil excavation for visible soil staining, odor, and the possible presence of unknown hazardous material sources. If hazardous material contamination or sources are suspected or identified during project construction activities, the construction contractor will be required to cease work in the area and to have an environmental professional evaluate the soils and materials to determine the appropriate course of action required, consistent with the Unknown Hazards Procedures in Chapter 7 of the Caltrans' Construction Manual

Water Quality and Storm Water Runoff

Caltrans Standard Specification 13-1.01D (2)-Regulatory Requirements:

PF-WQ-1: The project will comply with the provisions of the National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements for the State of California Department of Transportation, Order No. 2012-0011-DWQ, NPDES No. CAS000003 and any subsequent permits in effect at the time of construction.

• Caltrans Standard Specification 13-3.01D (2)-Regulatory Requirements:

PF-WQ-2: The project will comply with the provisions of the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) Order No. 2009-0009-DWQ, NPDES General Permit No. CAS000002 and any subsequent permits in effect at the time of construction.

Caltrans Standard Specification 13-3 Storm Water Pollution Prevention Plan:

PF-WQ-3: The project will comply with the Construction General Permit by preparing and implementing a Storm Water Pollution Prevention Plan (SWPPP) to address all construction-related activities, equipment, and materials that have the potential to impact water quality for the appropriate Risk Level. The SWPPP will identify the sources of pollutants that may affect the quality of Storm water and include BMPs to control the pollutants, such as: sediment control, catch basin inlet protection, construction materials management, and non-storm water BMPs. All work must conform to the Construction Site BMP requirements specified in the latest edition of the Storm Water Quality Handbooks: Construction Site Best Management Practices Manual to control and minimize the impacts of construction and construction related activities, material and pollutants on the watershed. These include, but are not limited to temporary sediment control, temporary soil stabilization, scheduling, waste management, materials handling, and other non-storm water BMPs

PF-WQ-4: Design Pollution Prevention BMPs will be implemented such as preservation of existing vegetation, slow/surface protection systems (permanent soil stabilization), concentrated flow conveyance systems such as ditches, berms, dikes and swales, overside drains, flared end sections, and outlet protect/velocity dissipation devices.

PF-WQ-5: Caltrans approved treatment BMPs will be implemented consistent with the requirements of NPDES permit and Waste Discharge Requirements for the State of California, Department of Transportation, Order No. 2012-001-DWQ, NPDES No. CA200003 and any subsequent permits in effect at the time of construction.

PF-WQ-6: Any discharges of groundwater to surface waters during construction will be subject to the General Waste Discharge Permit for Discharges to Surface Waters of Groundwater Resulting from Groundwater Dewatering Operations and/or Groundwater Cleanup Activities at Sites Within the San Diego Creek/ Newport Bay Watershed Polluted by Petroleum Hydrocarbons, Solvents, Metals, and/ or Salts (Order No. R8-2007-0042, NPDES NO. CAG918002) and any subsequent updates to the permit at the time of construction.

Noise

Caltrans Standard Specifications Section 14.8-02 Noise Control

PF-N-1: During construction of the Project, noise from construction activities may intermittently dominate the noise environment in the immediate area of construction. Noise associated with construction is controlled by 2018 Caltrans Standard Specification Section 14-8.02, "Noise Control," which states the following: Control and monitor noise resulting from work activities. Do not exceed 86 dBA Lmax at 50 feet from the job site activities from 9 p.m. to 6 a.m.

Recreation

PF-REC-1: The property used for temporary construction easement will be restored to a condition at least as good as it was prior to easement being granted

Traffic

Caltrans Standard Specifications Section 12-4 Maintaining Traffic

PF-TRA-1: A Transportation Management Plan (TMP) shall be included in the design plans for implementation by the contractor prior to and during construction of any improvements. The TMP shall consist of prior notices, adequate sign posting, detours, phased construction, and temporary driveways where necessary. The TMP shall specify implementation timing of each plan element (e.g., prior notices, sign posting, detours) as determined appropriate by Caltrans. Adequate local emergency access shall be provided at all times to adjacent uses. Proper detours and warning signs shall be established to ensure public safety. The TMP shall be devised so that construction shall not interfere with any emergency response or evacuation plans. Construction activities shall proceed in a timely manner to reduce impacts.

No Build Alternative

The No Build alternative retains the existing roadway condition. This Alternative will not address congestion during morning peak hours within the project limits. This is not the preferred alternative.

Table 1-1 Permits and Approvals Needed

The following permits, reviews, and approvals would be required for project construction:

Agency	PLAC	Status
Santa Ana Regional Water Quality Control Board (RWQCB)	Section 401 Water Quality Certification	Coordination with the agency will occur during PS&E
U.S. Army Corps of Engineers/(USACOE)	Section 404 Clean Water Act, Letter of Permission	Coordination with the agency will occur during PS&E
California Department of Fish and Wildlife (CDFW)	CA. Fish and Game Code 1602 , Lake or Streambed Alteration Agreement	Coordination with the agency will occur during PS&E
City of Irvine	Section 4(f) De Minimis Concurrence	Obtained Concurrence from the City of Irvine 3-9-2020
Orange County Flood Control District (OCFCD)	Encroachment Permit	Coordination with the agency will occur during PS&E

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Chapter 2 - CEQA Checklist

The environmental factors checked below would be potentially affected by this project. Please see the checklist beginning on page 3 for additional information.

	Aesthetics	П	Agriculture and Forestry		Air Qua	lity
	Biological Resources		Cultural Resources	П	Energy	
X	Geology/Soils		Greenhouse Gas Emissions		Hazard: Materia	s and Hazardous Is
	Hydrology/Water Quality		Land Use/Planning		Mineral	Resources
	Noise		Population/Housing		Public S	Services
	Recreation		Transportation		Tribal C	ultural Resources
	Utilities/Service Systems		Wildfire	×	Mandat Significa	ory Findings of ance
On th	I find that the proposed a NEGATIVE DECLARA	project	COULD NOT have a signific	ant effe	ect on the	environment, and
	I find that although the p	ropose	ed project could have a signififect in this case because rev			
	will be prepared.		oject proponent. A MITIGAT			
	ENVIRONMENTAL IMP	ACT R				
	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.					
	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.					
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		V (L	' /
Prin	Printed Name: (har es Baker For:					

This checklist identifies physical, biological, social, and economic factors that might be affected by the proposed project. In many cases, background studies performed in connection with the projects will indicate that there are no impacts to a resource. A NO IMPACT answer in the last column reflects this determination. The words "significant" and "significance" used throughout the following checklist are related to CEQA, not NEPA, impacts. The questions in this form are intended to encourage the thoughtful assessment of impacts and do not represent thresholds of significance.

Project features, which can include both design elements of the project, and standardized measures that are applied to all or most Caltrans projects such as Best Management Practices (BMPs) and measures included in the Standard Plans and Specifications or as Standard Special Provisions, are considered to be an integral part of the project and have been considered prior to any significance determinations documented below.

2.1 Aesthetics

Except as provided in Public Resources Code Section 21099, would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?				
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?				
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				

2.1.1 Discussion of Environmental Evaluation Questions

- a) **No Impact:** The project will not have a significant adverse effect on scenic vistas because there are no scenic vistas within the project limits.
- b) **No Impact**: The proposed project will not substantially damage scenic resources because there are minimal scenic resources within the project limits and no work is anticipated that would cause substantial damage to these resources.
- c) No Impact: The proposed project will not substantially degrade the existing visual character or quality of public views of the state and its surroundings, or conflict with applicable zoning and other regulations governing scenic quality. This is because the project area is flat and lacks substantial visual character and quality views.

d) **No Impact**: The proposed project will not create a new source of substantial light or glare which would adversely affect day or nighttime views in the area because there will be minimal changes to the existing landscape and driving views within the project limits.

Avoidance, Minimization and/or Mitigation:None Required

2.2 Agriculture and Forest Resources

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board.

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				\boxtimes
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				
d) Result in the loss of forest land or conversion of forest land to non-forest use?				
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				\boxtimes

2.2.1 Discussion of Environmental Evaluation Questions

- a) No Impact: According to the Department of Conservation California Important Farmland Finder database, there is no Prime Farmland, Unique Farmland, or Farmland of Statewide Importance within the project area. It is classified as Urban and Built-Up Land.
- b) No Impact: The project area does not conflict with existing zoning for agricultural use, or a Williamson Act Contract. Per the City of Irvine General Plan Land Use Element, the project area's surrounding land is designated as Business/Industrial.
- c) No Impact: There is no land within the project area zoned as forest land or timberland.
- d) No Impact: See response to c)
- **e) No Impact:** The project would not involve other changes in the existing environment resulting in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use.

Avoidance, Minimization, and/or Mitigation MeasuresNone Required

2.3 Air Quality

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.

control district may be relied upon to make the followin	<u>ig determination</u>	ა.		
Would the project:	Significant and	Less Than Significant with	Less Than Significant	No Impact
	Unavoidable	Mitigation	Impact	impaot
	Impact	Incorporated		
a) Conflict with or obstruct implementation of the applicable air quality plan?				
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard?				
c) Expose sensitive receptors to substantial pollutant concentrations?				
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?				

2.3.1 Discussion of Environmental Evaluation Questions

a) Less Than Significant Impact: The project limits are located in the South Coast Air Basin and is within the jurisdiction of the South Coast Air Quality Management District

(SCAQMD) and the California Air Resources Board (CARB). The SCAQMD is the primary agency responsible for writing the Air Quality Management Plan (AQMP) in cooperation with the Southern California Association of Governments (SCAG), local governments, and the private sector. The AQMP provides the blueprint for meeting State and Federal ambient air quality standards. The Build Alternative would improve vehicular traffic operations on these segments of the SB SR-133. The Build Alternative is included in SCAG's 2016–2040 Regional Transportation Plan (RTP) and the 2019 Federal Transportation Improvement Program (FTIP), both of which were found to be conforming (see section 3.2.3 and 3.4.1, Air Quality). Therefore, the Build Alternative would not conflict with the AQMP, violate any air quality standard, result in a net increase of any criteria pollutant, or expose sensitive receptors to substantial pollutant concentrations.

- b) Less than Significant Impact. The Build Alternative would not result in a cumulatively considerable net increase of any criteria pollutant for which the region is in nonattainment under an applicable Federal or State ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors). Co2e in the Build Year 2044 (2,891 MT/Year) is less than in the Existing Year 2018 (2,905 MT/Year) and in No Build Year 2044 (2,998 MT/Year) (See Table 3.1.4). Thus, impacts for the Build Alternative would be less than significant (Caltrans, 2019); Interim Guidance: Determining CEQA Significance for Greenhouse Gas Emissions for Projects on the State Highway system). No mitigation is required.
- **c**) **Less than Significant Impact.** The Build Alternative would not expose sensitive receptors to substantial pollutant concentrations. Any impacts associated with the Build Alternative would be less than significant. No mitigation is required.
- d) Less than Significant Impact. Temporary construction activities including clearing, cut-and-fill activities, grading, and paving could generate fugitive dust from soil disturbance and other emissions from the operation of construction equipment. The Build Alternative would comply with construction standards adopted by the South Coast Air Quality Management District (SCAQMD) as well as Caltrans standardized procedures for minimizing air pollutants during construction. See Section 3.1.3.4. of this report for a list of standardized Project Features (PF-AQ-1) that would avoid and/or minimize air quality impacts resulting from construction activities. Objectionable odors are not currently present within the project limits and construction activities, including the use of diesel equipment, would be temporary in nature and are not anticipated to emit significant odors. Similarly, impacts from the Build Alternative would be less than significant with the Project Features listed above. No mitigation is required.

Avoidance, Minimization and/or Mitigation Measures:

None required, the following project features will be implemented:

PF-AQ-1 The construction contractor must comply with Caltrans Standard Specification in Section 14-9, Air Quality, which specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and ordinances.

2.4 Biological Resources

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service, or NOAA Fisheries?				
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				

2.4.1 CEQA Significance Determinations for Biological Resources

The potential for the Build Alternative to result in adverse impacts to biological resources was assessed in the *Natural Environment Study* (NES) (December 2019) in this Initial Study. The following discussions are based on these analyses.

a) No impact. A total of 15 special status plant species were considered for their potential to occur within the BSA. Due to the lack of suitable habitats within the BSA and none observed within the BSA, the project is not anticipated to impact special status plant species. 26 special status wildlife species listed as Species of Special Concern under the California Department of Fish and Wildlife are considered to occur within the BSA. Due to the lack of suitable habitat and modifications to San Diego Creek, most of the species aren't expected to inhabit the BSA. Based on literature reviews 19 Federal and State plant and wildlife

species are expected to occur within the BSA. None of the species are expected to occur within the BSA due to the lack of suitable habitat in the BSA. The project will result in no direct and indirect impacts to listed plant or wildlife species. Caltrans is making a no effect determination for all federally listed species obtained for this project. Therefore, no section 7 consultations or coordination with the California Department of Fish and Wildlife under the Endangered Species Act (ESA) or California Endangered Species Act (CESA) are required for this project respectively. No impacts are anticipated, and no mitigation is required.

- **b)** Less Than Significant Impact. The Biological Study Area (BSA) is located within a developed area surrounded by buildings and ornamental vegetation. San Diego Creek is the only natural community considered sensitive by the CDFW, US Army Corps of Engineers and Regional Water Quality Control Board. The creek within the BSA support no riparian or sensitive habitat identified in local or regional plans, policies, regulation or by the CDFW or USFWS. Therefore, there will be less than significant impacts and no mitigation is required.
- c) Less Than Significant Impact. Based on the results of the jurisdictional delineation reports. San Diego Creek is the only drain that is subject to USACE under Section 404 of the Clean Water Act (CWA). This creek is a naturally occurring drainage feature that conveys ephemeral flows from adjacent drains and natural flood water during rain fall. San Diego creek is a blue line stream and a direct tributary to the Pacific Ocean (Navigable water). Since the creek within the BSA lacks vegetation to meet Corps wetland criteria, the creek is subject to Corps Jurisdiction under non-wetland waters of the US. The Water Board jurisdiction under Section 401 of the CWA is similar to the area subject to the Corps jurisdiction. The creek is also a flood control channel and is mainly maintained by the County of Orange throughout the watershed. To maintain protection of bridge structures and improve the flow within the creek, the creek within the watershed has been altered from the original condition. As a result, the creek within the BSA was altered from its natural condition due to the installation of Rock Slope Protection (RSP), check dam, concrete line embankments on both sides of the channel, and routine sediment removal activities. Also, portion of San Diego Creek within this BSA support no riparian vegetation and is subject to CDFW as an unvegetated streambed.

The project will result in no impacts to federally protected wetlands. However, the project will result in a total of 1.5 acres of temporary impacts to CDFW unvegetated streambed and 0.9 acres of Corps non-wetland waters of the U.S. Upon completion of construction, temporary impact area will be restored to original conditions. Therefore, no mitigation is required for federally protected wetlands.

The project will result in 0.006 acres of permanent impacts to Corps non-wetland waters of the US/CDFW unvegetated streambed. Based on the RWQCB's comment on the Draft Environmental Document, Caltrans acknowledges the request and will compensate accordingly for impacts to non-wetland waters of the U.S/unvegetated streambed at a 1:1 ratio. Credits will be purchased from the San Luis Rey or Soquel Canyon Bank. See Appendix I for Caltrans' response to the RWQCB's comments and compensatory measure **B-1**. The compensation measure has been included to minimize this impact. Therefore, impacts are considered less than significant.

The project may require a Letter of Permission (LOP)/Watershed Streambed Alteration Agreement (WSAA) from the US Army Corps of Engineers and a California Department of

Fish and Wildlife. A Section 401 water quality certification from the Regional Water Quality Board is also required for this project.

- d) Less Than Significant Impact. Although the project is located within a developed area, wildlife movement is expected to occur within the BSA. Existing drainages, mainly San Diego Creek, provide habitat for wildlife corridors for large and small animals. During construction period, implementation of the project is expected to result in temporary impacts to wildlife movement or decrease the functionality of the wildlife crossing within the creek. Caltrans is required by Senate Bill (SB) 857 to assess and remediate barriers to fish passage at stream crossings along the State Highway System that currently or historically supported anadromous fish. Literature reviews and a reconnaissance-level fish passage assessment were conducted for this project. A fish passage assessment was done within San Diego Creek, the only natural creek found within the BSA. Due to extensive modification and the lack of historic evidence of anadromous fish passages within the creek, this project isn't expected to affect fish passage within the BSA. Also, proposed bridge widening within the project footprint does not constitute a complete barrier to anadromous fish within the BSA. Therefore, with the implementation of avoidance and minimization measures below, project impacts to wildlife movement and fish passage will be less than significant and no mitigation is required
- e) Less Than Significant Impact. Native and non-native plants are scattered throughout the BSA. Several migratory and game birds were observed during the field survey. Mud swallow nests were observed under the SR-133 bridge over San Diego Creek. Suitable nesting habitat for Cooper's hawks observed within the BSA. The project will require vegetation clearing and trimming during the construction period. Furthermore, the San Diego Creek bridge will be widened to accommodate the additional auxiliary lane. The project may impact nesting birds and their nests during nesting season. With the implementation of avoidance and minimization measures, the project will avoid and minimize impacts to nesting birds/raptors and their nests. A bat habitat assessment was conducted for this project. No sign of bats was observed within the BSA. Due to the presence of suitable habitat within the BSA, one year prior to construction, bat assessment survey will be conducted to determine the presence of bats within the bridge. Based on the finding of the future assessment, additional appropriate measures will be included during the project design phase. With implementation of the appropriate measures below, impacts will be less than significant, and no mitigation is required.
- f) Less Than Significant Impact. The project is located within a Special Area Management Plan (SAMP) area designated by the US Army Corps of Engineers. The US Army Corps of Engineer has an alternative permitting process to facilitate reasonable economic development and infrastructure while also providing for aquatic resource protection. Therefore, the project is subject to the abbreviated alterative permitting process associated with the SAMP. The project may require a Letter of Permission (LOP)/Watershed Streambed Alteration Agreement (WSAA) from the US Army Corps of Engineers and a California Department of Fish and Wildlife. A Section 401 certification from the Regional Water Quality Board is also required for this project. By obtaining any potential necessary permits from the regulatory agencies mentioned above, the Build Alternative would not conflict with the provisions of Special Area Management Plan. Furthermore, the project is located outside an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. Therefore, impacts would be less than significant.

Avoidance, Minimization and/or Mitigation Measures:

- B-1: The project will result in 0.006 acres of permanent impacts to Corps non-wetland waters of the U.S and CDFW unvegetated streambed. In compliance with RWQCB's request, Caltrans will compensate for permanent impacts to waters of the U.S/unvegetated streambed off-site at a minimum of 1:1 Ratio by purchasing riparian credits from the San Luis Rey or Soquel Canyon Mitigation Bank.
- PF-BIO-1 Caltrans Standard Specification 14-6.03B Bird Protection. Nesting Bird Season: To avoid impacts to any nesting birds, ground disturbance and vegetation removal that occurs during the nesting bird season (February 1 September 30) will require nesting bird surveys by The Caltrans Biologist; the Caltrans biologist will be contacted at least one week prior to any construction activities to schedule a survey. If nesting birds are found, the biologist will create a buffer zone and Environmentally Sensitive Area (ESA) fence will be placed around the buffer zone. No construction work shall occur within the buffer zone until the nest is no longer active and all young birds have fledged.
- PF-BIO-2 Comply with Executive Order Number 13112: Invasive Species. Vegetation species known to be invasive in the state of California will not be installed (e.g. Mexican fan palm, pampas grass, tree of heaven, etc.). An invasive plant species list can be found at the California Invasive Plant Inventory Council (Cal-IPC) website http://www.cal-ipc.org/paf/. The Landscape Architect will coordinate with the Caltrans Biologist to ensure an appropriate plant palette is created for this project. During construction, the contractor shall inspect and clean construction equipment at the beginning of each day and prior to transporting equipment into the creek. During construction, soil and vegetation disturbance will be minimized to the greater extent feasible. Contractor shall use weed-free straw and fiber rolls to use for erosion control During construction, the contractor shall ensure that all material stockpiled within the creek is sufficiently watered and covered to prevent growth of invasive plants. During construction, gravel and rock will be obtained from weed free source.
- **BIO-1** Prior to any construction, highly visible barriers (ESA fence) will be installed around the project disturbance limits to designate Environmentally Sensitive Areas within San Diego creek. The ESA fence shall be installed under the direction of a qualified Biologist. Silt fence barriers will be installed at the ESA boundary to prevent accidental deposition of fill material in areas.
- BIO-2 Prior to the beginning of construction adjacent to the ESAs, a qualified biologist will survey areas adjacent to the ESA boundaries to flush any wildlife species present prior to construction and ensure all avoidance measures are properly implemented
- **BIO-3** A Storm Water Pollution Prevention Plan (SWPPP) will be developed and implemented to comply with the National Pollutant Discharge Elimination System (NPDES) Statewide Construction General Permit (CGP). The SWPPP will identify

- and implement temporary Best Management Practices (BMPs) during construction to address the temporary impacts to water quality.
- BIO-4 Equipment including but not limited to excavators, motor vehicles and trucks shall not be allowed to operate in the ESAs. No equipment and material storage will be allowed within or adjacent to ESAs. All equipment maintenance, staging dispensing of fuel oil or any other such activities shall occur in developed or designated non-sensitive areas. This area shall be reviewed and approved by the District Biologist. Upon completion of construction, the ESA fence shall be removed.
- BIO-5 In the event that suitable trees for Cooper's hawk nests are required to be
 removed during nesting season, a qualified biologist will conduct pre-construction
 nesting bird surveys. If nesting Cooper's hawk are found, the biologist will create a
 buffer zone and an ESA fence will be placed around the buffer zone. No construction
 work shall occur within the buffer zone until the nest is no longer active and all young
 birds fledged.
- BIO-6 Although suitable roosting habitats are present within the BSA and no
 evidence of bats was observed this year, it is possible that the hinges within the San
 Diego Creek bridge or palm trees may be used at other times of the year or during
 the construction period. Therefore, one year prior to the beginning of construction, a
 bat assessment survey and day/nighttime emergence surveys will be conducted
 during maternity season. The survey includes a combination of suitable habitat
 assessment, exit counting, and acoustic surveys. If maternity roosting bats are
 found, additional avoidance and minimization measures will be included at the time
 of the survey.
- BIO-7 A bat survey will be conducted two weeks prior to beginning of construction work within San Diego creek bridges. If the bridges are determined to be occupied outside maternity roosting period, bat exclusion devise (one-way doors) will be installed. A qualified bat biologist will monitor the installation and exclusion of bats during construction period. If maternity roost is present, no work under the bridge will occur during maternity season (April-August) and exclusion devise will be installed after September 1 or after all young leave the structure.
- BIO-8 Appropriate permits from the US Army Corps of Engineers, the California
 Department of Fish and Wildlife, and the Regional Water Quality Control Board will
 be obtained prior to construction.

2.5 Cultural Resources

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in §15064.5?				
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				
c) Disturb any human remains, including those interred outside of dedicated cemeteries?				

2.5.1 CEQA Significance Determination for Cultural Resources

The potential for the Build Alternative to result in significant impacts related to cultural resources was assessed in the Historic Property Survey Report (HPSR; January 2020).

a) Less Than Significant impact. CEQA defines a "historical resource" as a resource that meets one or more of the following criteria: (1) listed in, or determined eligible for listing in, the California Register of Historical Places (California Register); (2) listed in a local register of historical resources as defined in the California Public Resources Code (PRC) \$5020.1(k): (3) identified as significant in a historical resource survey meeting the requirements of PRC §5024.1(g); or (4) determined to be a historical resource by a project's Lead Agency (PRC §21084.1 and State CEQA Guidelines §15064.5(a)). A record search of the Area of Potential Effects (APE) and a 1-mile radius around the APE was conducted on July 24, 2019, at the South Central Coastal Information Center (SCCIC) of the California Historical Resources Information System (CHRIS), located at California State University, Fullerton. On July 26, 2019, an archaeological field survey was conducted. No cultural resources have been previously recorded in the APE. No cultural resources were identified during the field survey. As such, no known historical resources exist in the APE. The proposed project would not cause a substantial change in the significance of a historical resource as defined in §15064.5. No mitigation is required.

b) .Less Than Significant Impact

Based on the results of background research and the archaeological field survey, no archaeological resources are within the APE. No cultural resources were identified as a result of the HPSR preparation, and the field survey showed that the area in the APE exhibited high levels of disturbance from previous road and drainage construction, from shoulder and slope maintenance, and from recent grading. While 31 cultural resources have been recorded within 1.0 mile of the APE, no cultural resources have been previously recorded within the APE. Previously recorded resources include prehistoric (17), historic (13), and combination prehistoric/historic (1). Many of prehistoric sites in the record search area are located on knolls and areas of higher elevation. Some of these knolls have been graded and levelled as a result of construction, resulting in destruction of the knolls and the sites atop them. This is true of the prehistoric archaeological site closest to the APE (CA-ORA-391). The APE is located at a lower elevation than the knoll recorded as containing

CA-ORA-391, and previous excavation to a depth of 3 ft at the site resulted in the recovery of no artifacts. Given that the original location of site CA-ORA-391 was atop a knoll that has been since levelled and that trenching monitored by an archaeologist in 1984 on the eastern side of the knoll containing the site produced no subsurface artifacts, CA-ORA-391 is considered to no longer exist.

As such, although excavation for retaining walls will extend approximately 3 ft deep into native soil near San Diego Creek, it is unlikely that archaeological resources will be encountered during project construction activities.

While not anticipated, if cultural materials are discovered during construction, all earthmoving activity within and around the immediate discovery area would be diverted until a qualified archaeologist can assess the nature of the find. **Project Feature PF-CUL-1** addresses the possibility of discovery of cultural materials during construction.

- PF-CUL-1

 Discovery of Cultural Materials. If cultural materials are discovered during site preparation, grading, or excavation, the construction Contractor will divert all earthmoving activity within and around the immediate discovery area until a qualified archaeologist can assess the nature and significance of the find. At that time, coordination will be maintained with the California Department of Transportation (Caltrans) District 12 Environmental Branch Chief or the District 12 Native American Coordinator to determine an appropriate course of action. If the discovery of cultural materials occurs outside the Caltrans right-of-way, then coordination with the appropriate local agency will be conducted as well.
 - c) Less Than Significant Impact No human remains or burial sites were identified during the field survey. A search of the Sacred Lands File by the Native American Heritage Commission failed to indicate the presence of Native American cultural resources (including burials) in the project site. According to the record search results, no human burials have been previously recorded within 1.0 mile of the project site.

While not anticipated, if human remains are discovered during construction, all earthmoving activity within and around the immediate discovery area would be diverted until the Orange County Coroner can assess the nature of the find. **Project Feature PF-CUL-2** addresses the possibility of discovery of human remains during construction.

PF-CUL-2 Discovery of Human Remains. If human remains are discovered during site preparation, grading, or excavation, California State Health and Safety Code (H&SC) Section 7050.5 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the Orange County Coroner shall be contacted. If the remains are thought to be Native American, the Coroner will notify the Native American Heritage Commission (NAHC), who pursuant to California Public Resources Code (PRC) Section 5097.98, will then notify the Most Likely Descendant (MLD). At that time, the persons who discovered the remains will contact the Caltrans District 12 Environmental Branch Chief or the District 12 Native American Coordinator so that they may work with the MLD on the respectful treatment

and disposition of the remains. Further provisions of California PRC 5097.98 are to be followed as applicable.

Avoidance, Minimization and/or Mitigation Measures:

None required, the following project features will be implemented; PF-CUL-1 and PF-CUL-2

2.6 Energy

Would the project:	Significant	Less Than	Less Than	No
	and	Significant with	Significant	Impact
	Unavoidable	Mitigation	Impact	
	Impact	Incorporated		
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?				
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				

2.6.1 Discussion of Environmental Evaluation Questions

- a) Less Than Significant Impact. The construction of the proposed project will primarily consume diesel and gasoline through operation of heavy-duty construction equipment, material deliveries, and debris hauling. Energy use associated with proposed project construction is estimated to increase the short-term energy demand through related construction activities. This short-term energy demand would cease once the construction of the project is complete. Regarding long-term and permanent energy consumption, operational activities would primarily require energy for transportation fuel, electricity for lighting and maintenance activities; the dominant energy use being consumption of transportation fuel. However, this project will improve traffic flow by reducing congestion and operational deficiencies in this segment of the SR-133 corridor, thereby reducing idling and improving the flow the traffic. Therefore, the project will not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation. The impact would be less than significant and no mitigation is required.
- b) No impact. The project would be consistent with regional and State energy conservation plans. The Southern California Association of Governments' (SCAG) 2016/2035 Regional Transportation Plan / Sustainable Communities Strategy^[1], or Plan, includes information about efforts to encourage energy efficiency and renewable energy use. Regional plans for renewable energy and energy efficiency would not be impacted from the construction and operation of the project. Energy efficient building development is not applicable to this project and renewable energy policies are encouraged for all Caltrans projects where applicable and feasible. The result of this

^{[1] 2016/2030} RTP/SCS, Southern California Association of Governments. Accessed July 15, 2019. Website http://scagrtpscs.net/Documents/2016/final/f2016RTPSCS.pdf

project will not conflict with or obstruct regional plans for renewable energy or energy efficiency. The project would be consistent with regional and State energy conservation plans. Planning documents with relevant energy assessments include the 2016-2040 RTP/SCS published by SCAG and the 2018 IERP (CEC 2018). The 2016-2040 RTP/SCS includes a comprehensive assessment of regional energy consumption primarily focused on residential and commercial electricity, natural gas, and water use. The 2016–2040 RTP/SCS Draft EIR (Sapphos 2015b) includes a brief analysis of transportation fuel consumption. SCAG concluded in the Draft EIR that the 2016-2040 RTP/SCS would have a less than significant impact on increasing petroleum and non-renewable fuel usage because fuel consumption is expected to result in a 26.7 percent net reduction in the SCAG region from the 9.3 billion gallons consumed in 2012 to the projected 6.8 billion gallons consumed in 2040. Transportation fuel use would be less in the project opening and design years than existing/baseline condition. Furthermore, transportation fuel use in 2035 would be less with the project than without the project. A slight increase would occur in 2055 due to increased VMT, although the additional transportation fuel use would represent less than 1 percent increase in fuel use from the No Build Alternative. The project would be consistent with the energy findings in the 2016-2040 RTP/SCS and would not interfere with implementation of the 2016-2040 RTP/SCS. The 2018 IERP includes key goals to guide the State's energy policy, including reducing petroleum use in cars and trucks by up to 50 percent. The discussion related to this goal broadly focuses on increasing the number of zero- or near-zero emission vehicles operating on the roadway network. It is also noteworthy that improving driving conditions reduces petroleum use, concluding that AM and PM peak-period vehicle delays would decrease by 19 percent and 6 percent, respectively, in 2035. The AM and PM peakperiod vehicle delays would decrease by 14 percent and 4 percent, respectively, in 2055. The congestion improvement would reduce vehicle idling and associated fuel consumption. This would be consistent with the goal of reducing petroleum use in cars and trucks by up to 50 percent, and the project would not interfere with implementation of the 2018 IERP. Accordingly, the proposed project would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency. No impact and no mitigation is required.

Avoidance, Minimization, and/or Mitigation Measures

None required

2.7 Geology and Soils

Would the project:	Significant and	Less Than	Less Than	No
	Unavoidable Impact	Significant with Mitigation Incorporated	Significant Impact	Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.		
ii) Strong seismic ground shaking?		
iii) Seismic-related ground failure, including liquefaction?		
iv) Landslides?		\boxtimes
b) Result in substantial soil erosion or the loss of topsoil?		
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in onor off-site landslide, lateral spreading, subsidence, liquefaction or collapse?		
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?		
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?		
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		

The potential for the Build Alternative to result in adverse impacts related to paleontological resources was assessed in the Paleontological Identification Report/Paleontological Evaluation Report (PIR/PER, September 2019) and the Supplemental PIR/PER memorandum (January 2020).

2.7.1 Discussion of Environmental Evaluation Questions

- i) **No Impact**: The project site is not located within an Alquist-Prilo Earthquake Fault Zone (EFZ) as defined by the California Geologic Survey, nor is it within 1000 feet of an un-zoned fault that is Holocene (11,000 years) or younger in age and have surface rupture potential. Therefore, there is no risk of surface fault rupture hazard for this project. No mitigation is required.
- ii) **No Impact**: The location of the project site is an area that could experience moderate seismic ground shakings from possible earthquakes. The Peak Ground Acceleration (PGA) for this site is about 0.6 to 0.7g. However, the project would not cause strong seismic ground shaking and all structures would be designed with special design considerations for seismic features. Therefore, there is no impact and no mitigation is required.
- iii) **Less Than Significant Impact**: Due to the location of the project site, there could be moderate seismic ground shakings from possible earthquakes. The construction of the

- project would be implemented with consideration of seismic influences to minimize any effects of liquefaction in the event of seismic activity in the project area. Therefore, the impacts would be less than significant, and no mitigation is required.
- iv) **No Impact**: The project is not located in an area with high steep slopes that would be potentially vulnerable to deep-seated landslides. No mitigation is required.
- b) Less Than Significant Impact: Within the San Diego Creek area under the bridge, scouring issues have been observed and reported. During Design, remedial treatments will be recommended by Structure Hydraulics for the existing scour. Slopes will be designed according to Caltrans Requirements for erosion control.
- c) No Impact: The potential for landslides, lateral spreading, collapse and subsidence is minimal at the project site, as well as potential for liquefaction. Foundations will be designed with special considerations.
- d) Less Than Significant Impact: Geotechnical investigatory boring results have shown that much of the project site has non-expansive soil. Any effects of expansive soil would be minimized or eliminated by incorporation of appropriate foundation types and subsurface soil preparations. For pavements, measures such as pre-wetting, moisture control with proper surface and subsurface drainage facilities will be implemented.
- e) **No Impact**: There are no soils incapable of supporting the use of septic tanks or alternative waste water disposal systems within the project limits. No mitigation is required.
- f) Less Than Significant Impact with Mitigation Incorporated: Geologic mapping indicates that the project area contains Young Alluvial Fan Deposits and the Vaqueros Formation. Artificial Fill is also likely present from the surface to varying depths throughout much of the project area where it was placed during the construction of SR-133. The Young Alluvial Fan Deposits have low sensitivity for paleontological resources from the surface to a depth of 10 ft and high sensitivity below that mark. The Vaqueros Formation has high paleontological sensitivity. Artificial Fill has no paleontological sensitivity.

Construction of the Build Alternative would not result in temporary impacts to paleontological resources because any impacts to those types of resources during construction would be considered permanent. Excavation depths for the various components of the Build Alternative range from 2 inches for replacement of the loop detectors at Barranca Parkway on-ramp to 30-50 ft for driving 18-inch diameter piles to support the new San Diego Creek on-ramp bridge. The pile caps for these supports would be 8 ft in diameter and extend to a depth of 3 ft. Excavation for replacing and installing sign structures would extend to a depth of 25 ft. Replacing light poles would require excavation to a depth of 5 ft. Constructing additional asphalt/concrete pavement and bridge pavement would extend to depths of 3-5 ft. Realigning/reconstructing the Barranca Parkway loop on-ramp and ramp entrance, as well as maintenance vehicle pullouts, would extend to a depth of 3.10 ft. Excavation for tieback walls at Barranca Parkway OC and Alton Parkway OC would reach a depth of 3.5 ft, and excavation for the retaining walls would reach 5.5 ft. Excavation to a depth of 6 ft would be required for installing the ramp metering system and the Rock Slope Protection/Partially Grouted Rock Slope Protection. Installation of the Midwest Guardrail System and replacement of barriers would involve excavation to a depth of 7 ft. Relocating drainage inlets would extend to 10 ft. Clearing and grubbing would extend to less than 1 ft, while planting and landscaping would extend to 1.5 ft.

Some of these excavation activities would occur in deposits that are sensitive for paleontological resources. As such, excavation for some of these construction activities may

have the potential to significantly impact paleontological resources. However, with implementation of Measure PAL-1, which would require the preparation and implementation of a Paleontological Mitigation Plan (PMP), potentially significant impacts to paleontological resources would be reduced to a less than significant level.

Avoidance, Minimization and/or Mitigation Measures:

With the incorporation of mitigation measure **PAL-1**, impacts to paleontological resources will be reduced to less than significant

PAL-1: A Paleontological Mitigation Plan (PMP) shall be prepared during the Plans, Specifications, and Estimates (PS&E) phase. The PMP shall be developed concurrently with the final design plans and shall follow the Caltrans guidelines in the *SER*, *Environmental Handbook*, *Volume 1*, *Chapter 8 – Paleontology* (Caltrans, 2017), as well as guidelines from the Society of Vertebrate Paleontology (SVP). Following these guidelines, the PMP shall include sections describing project activities, the geologic units within the project area and their paleontological sensitivities, the work plan for mitigating project impacts to paleontological resources, estimates of monitoring schedules and costs, decision thresholds for monitoring levels and fossil collections, a recommended repository for recovered fossils, any necessary permits, and the appropriate documentation at the end of the monitoring program. Once the PMP has been prepared, the paleontological resource protocols and procedures within it shall be incorporated into the project plans, specifications, and estimates.

2.8 Greenhouse Gas Emissions

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				
b) Conflict with an applicable plan, policy or regulation adopted for reducing the emissions of greenhouse gases?				

Assembly Bill 32 (AB 32), Chapter 488, 2006: Núñez and Pavley, The Global Warming Solutions Act of 2006: Assembly Bill 32 codified the 2020 GHG emissions reduction goals as outlined in State Executive Order S-3-05, while further mandating that ARB create a scoping plan and implement rules to achieve "real, quantifiable, cost-effective reductions of greenhouse gases." The Legislature also intended that the statewide GHG emissions limit continue in existence and be used to maintain and continue reductions in emissions of GHGs beyond 2020 (Health and Safety Code Section 38551(b)). The law requires ARB to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG reductions.

CEQA Guidelines Section 15064.4 states that when assessing the significance of impacts from Greenhouse Gas (GHG) emissions on the environment, the lead agency should

consider, among other factors, the extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting. While comparing future build to future no-build conditions may be useful in determining significant and in establishing the extent of project-level measures to reduce GHG emissions from the project, CEQA and the CEQA Guidelines remain in focused on the comparison of future conditions with the project compared to existing conditions.

2.8.1 Discussion of Environmental Evaluation Questions

Less Than Significant Impact: The purpose of the project is to improve traffic flow and reduce the heavy congestion that occurs in this segment of SR-133. This will improve the existing and future regional mobility and traffic flow on SB Route 133 and the connectors. Reduction in delays and congestions will help to reduce GHG emissions by decreasing amount of idling. By improving traffic flow, the project will help reduce the level of operational emissions and less traffic idling equals less GHG emissions produced. Travel Demand Management (TDM) and Transportation System Management (TSM) strategies are designed to influence an individual's travel behavior by reducing the demand for signal occupant vehicle travel, especially during peak commute periods. The project scope includes TSM/TDM elements including ramp metering on Barranca Parkway loop on-ramp which would provide air quality improvements by helping to reduce emissions from transportation sources.CO₂ emissions were calculated for the Base Year (2018). Opening Year (2024), and Design Year (2044). The results of the modeling were used to calculate the CO₂e emissions listed in Table 3.2. This table shows that the Build Alternative would result in a net decrease in CO₂e emissions in the opening year 2024 and in the design year 2044, compared to the base year 2018. The Build Alternative in both opening and design years would result in lower CO2e emissions in the region when compared to the No Build Alternative, even as VMT increases over time due to anticipated growth (Table 3.2). Improved operations and smoother traffic flow, along with use of cleaner fuels and cleaner vehicle technology in the future, contribute to reducing the GHG emissions in the future years compared to the Existing Year 2018.

Table 3.2: Modeled Annual CO₂e Emissions and Vehicle Miles Traveled, by Alternative

Alternative	CO ₂ e Emissions (metric tons/year)	Annual Vehicle Miles Traveled ^a
Existing/Baseline 2018	2,905	7,647,880
Open to Traffic 2024		
No Build	2,703	8,487,620
Build Alternative 1	2,644	8,487,620
20-Year Horizon/Design-Year 2044		
No Build	2,998	12,179,700
Build Alternative 1	2,891	12,179,700

Source: CT-EMFAC (2017), OCTAM 4.0 (2012 base year network and 2040 MPAH network) CO₂ = carbon dioxide

CO₂e = carbon dioxide, nitrous oxide, and methane.

^{an} Annual vehicle miles traveled (VMT) values derived from Daily VMT values multiplied by 347, per ARB methodology (ARB 2008: I-19).

The Build Alternative shows decrease in long-term regional vehicle GHG emissions compared to the Existing Condition. The Build Alternative in both opening and design years would result in decrease in CO2 emissions in the region when compared to the No Build Alternative in each year. VMT would be the same under the No Build Alternative and Build Alternative. Operation with this project in this area would not increase the CO2e. Therefore, impacts to generating GHG emissions both directly and indirectly to the environment would be less than significant. No mitigation is required.

a) No Impact: The project limits are within the South Coast Air Basin, within the jurisdiction of the South Coast Air Quality Management District (SCAQMD) and the California Air Resources Board (CARB). The project is included in Southern California Association of Governments (SCAG) 2016-2040 Regional Transportation Plan (RTP) and the 2019 Federal Transportation Improvement Program (FTIP), both of which are conforming to State and Federal ambient air quality standards provided in the Air Quality Management Plan (AQMP). Therefore, the project would not conflict with the AQMP or violate any air quality standards and have no impacts. No mitigation is required.

Avoidance, Minimization and/or Mitigation Measures:

None required, the following project features will be implemented:

PF-AQ-1 The construction contractor must comply with Caltrans Standard Specification in Section 14-9, Air Quality, which specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and ordinances.

2.9 Hazards and Hazardous Materials

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?				
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?		
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?		
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?		
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?		

2.9.1 Discussion of Environmental Evaluation Questions

- a) Less Than Significant Impact: Although the project will require transportation and/or disposal of hazardous materials, the Contractor will be required to comply with Caltrans Standards and Special Provisions for Hazardous Waste Management. An Aerially Deposited Lead Investigation (ADL) will be conducted at areas of excavation during which soil samples of unpaved areas next to the traffic lanes or shoulders will be collected, tested and analyzed for lead contamination. If lead contamination is found, appropriate Caltrans Standard Specifications will be implemented and followed with by Contractor accordingly. Additionally, investigations for pavement marking material removal, treated wood disposal and possible asbestos will be conducted and addressed prior to construction. The removal of yellow traffic striping and pavement marking material will be removed during construction in accordance with Caltrans Construction Manual. The impacts will be less than significant, and no mitigation required.
- b) **Less Than Significant Impact**: The project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. The Contractor will comply with the requirements for unanticipated asbestos and hazardous substances discovery. Impacts will be less than significant, and no mitigation is required.
- c) **No Impact**: Although the project is within a quarter mile of the Western State University College of Law, Cal State Fullerton Irvine Center, Webster University, and Brentwood University, any hazardous emissions or handling of hazardous or acutely hazardous materials, substances, or waste will be temporary in nature and last only for duration of construction of the project. The contractor will comply with the Caltrans Construction Manual and Caltrans standards for Hazardous Waste and Contamination which includes discovery of unanticipated asbestos and hazardous substances, dust control, stockpiling, contractor generated hazardous waste, storage of hazardous waste, the transport and disposal of hazardous waste. There are no impacts and no mitigation required.
- d) **No Impact**: The project is not located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. Therefore, the

project would not create any significant hazard to the public or environment. There are no impacts and no mitigation required.

- e) **No Impact**: The project is not located within an airport land use plan or, where such a plan has not within two miles of a public airport or public use airport. The project would not result in a safety hazard or excessive noise for people residing or working in the project area. No impacts are anticipated, and no mitigation is required.
- f) **No Impact**: The project will not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Safety Plans. Access for Emergency Response must always be maintained throughout construction of the project, and a Traffic Management Plan (TMP) will be prepared and implemented to keep traffic moving efficiently through the project area. No impacts are anticipated to occur, and no mitigation is required.
- g) **No Impact**: The project would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires. The project will comply with Caltrans standards for Fire Protection. No impacts are anticipated, and no mitigation is required.

Avoidance, Minimization, and/or Mitigation Measures

None required, the following project features will be implemented:

PF-TRA-1: A Transportation Management Plan (TMP) shall be included in the design plans for implementation by the contractor prior to and during construction of any improvements. The TMP shall consist of prior notices, adequate sign posting, detours, phased construction, and temporary driveways where necessary. The TMP shall specify implementation timing of each plan element (e.g., prior notices, sign posting, detours) as determined appropriate by Caltrans. Adequate local emergency access shall always be provided to adjacent uses. Proper detours and warning signs shall be established to ensure public safety. The TMP shall be devised so that construction shall not interfere with any emergency response or evacuation plans. Construction activities shall proceed in a timely manner to reduce impacts.

- **PF-HAZ-1** Solid Waste Disposal and Recycling Section 14.10 of CT 2018 SSPs. to reduce GHG emissions and potential climate change impacts
- **PF-HAZ-2:** Should construction activities result in the disturbance of traffic striping and pavement marking materials, the generated wastes would be disposed of at an appropriate permitted disposal facility as determined by a lead specialist
- **PF-HAZ-3:** During construction, the construction contractor will monitor soil excavation for visible soil staining, odor, and the possible presence of unknown hazardous material sources. If hazardous material contamination or sources are suspected or identified during project construction activities, the construction contractor will be required to cease work in the area and to have an environmental professional evaluate the soils and materials to determine the appropriate course of action required, consistent with the Unknown Hazards Procedures in Chapter 7 of the Caltrans' Construction Manual

2.10 Hydrology and Water Quality

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?				
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such the project may impede sustainable groundwater management of the basin?				
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
(i) result in substantial erosion or siltation on- or off-site;				
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;				
(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or				
(iv) impede or redirect flood flows?				\boxtimes
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				

2.10.1 Discussion of Environmental Evaluation Questions

The proposed project is located within the Santa Ana Regional Water Quality Control Board in Orange County, discharges to San Diego Creek (Reach 2). A Water Quality Technical Memo was completed on December 20th, 2019

Discussion of Environmental Evaluation Questions

a) Less Than Significant Impact

Construction

The project proposes to improve operations of the facility by constructing a new auxiliary lane on SB route 133 from the SB I-5 connector to the NB I-405 connector with an anticipated Disturbed Soil Area (DSA) of 6.0 acres.

Potential temporary impacts to water quality anticipated during construction include possible sediment transport caused by disturbed soil areas created by construction activities such as clearing, grubbing and excavation and grading to construct the auxiliary lanes, retaining walls and bridge construction. The project can also have temporary water quality impacts from concrete demolition waste, trash from workers and construction waste, petroleum products from construction equipment and/or vehicles, sanitary wastes from portable toilets and any other chemicals used for construction such as coolants used for equipment and/or concrete curing compounds. The construction for the bridge widening will require construction equipment to access San Diego Creek and extend the bridge foundations to accommodate the widening of the bridge. The bridge construction may require stream diversions to allow construction when flows are present in the creek. In addition, if the construction of pier foundations for the bridge construction encounter groundwater, discharges will be subject to the RWQCB Waste Discharge Requirements for groundwater discharges to surface waters.

With the anticipated DSA for the project to be over 1.0 acres, the project will be required to comply with the NPDES Construction General Permit (CGP) issued by the State Water Resources Control Board (SWRCB). To comply with the CGP, the project will be required to prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) and determine a Risk Level based on potential erosion and transport to receiving waters. The SWPPP will identify temporary Best Management Practices (BMPs) to address the potential temporary impacts to water quality. The BMPs identified in the project SWPPP will include measures such as temporary soil stabilization measures, linear sediment barriers (i.e. silt fence, gravel bag berms, fiber rolls), and construction site waste management (i.e. concrete washout, construction materials storage, litter/ waste management/ stream diversions). In addition, with the project working in San Diego Creek, a 401 Water Quality Certification (401 Certification) from the Santa Ana Regional Water Quality Control Board will be required prior to construction. Any discharges of groundwater to surface waters during construction will be subject to the General Waste Discharge Permit for Discharges to Surface Waters of Groundwater Resulting from Groundwater Dewatering Operations and/or Groundwater Cleanup Activities at Sites Within the San Diego Creek/ Newport Bay Watershed Polluted by Petroleum Hydrocarbons, Solvents, Metals, and/ or Salts. (Order No. R8-2007-0042, NPDES No. CAG918002) and any subsequent updates to the permit at the time of construction.

Operation

The proposed project will construct an auxiliary lane on SB route 133 from the SB I-5 connector to the NB I-405 connector. This proposed auxiliary lane will become the second lane on the NB I-405 connector. The construction will include grading, construction of retaining walls,

modifying the drainage system, and widening the roadway to construct the auxiliary lane. The increase of new impervious surface is approximately 2.54 acres that is comprised of a new impervious surface of 1.0 acres and 1.54 acres of replaced impervious surface. With the construction of an auxiliary lane, there is the possibility that the pollutants typically generated during the operation of a transportation facility will increase with the operating traffic traveling on a new lane. These pollutants may include sediment/ turbidity, nutrients, trash and debris, bacteria and viruses, oxygen demanding substances, organic compounds, oil and grease, pesticides and metals. Per the Caltrans NPDES permit, post-construction storm water treatment control requirements are required for projects that create 1.0 acre or more of new impervious surface. With the new impervious surface estimated to be 2.54 acres, this project is required to implement Caltrans approved post construction treatment controls. In addition to treating the roadway runoff, the project will stabilize with permanent vegetation all DSA's created by the minor grading and/ or excavation.

With the implementation of the Caltrans NPDES Permit, the General NPDES Permit for Construction Activities, a Storm Water Pollution Prevention Plan (SWPPP) and temporary and permanent BMPs, the project will not substantially degrade water quality (PF-WQ1, PF-WQ-2, PF-WQ-3, PF-WQ-4, PF-WQ-5, PF-WQ-6).

b) Less than Significant Impact: The project will not substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level. Minor groundwater extraction that may be needed during construction from construction of bridge foundations. Any discharges of groundwater to surface waters will be subject to the local RWQCB dewatering permit. (PF-WQ-6).

c) Less than Significant Impact

The project will not substantially alter the drainage pattern of the site or area but there may be a temporary alteration of a stream or river or stream diversion to allow for the construction of bridge pier foundations and placement of scour protection (Rock Slope Protection).

(i) Less than Significant Impact.

Potential temporary impacts to water quality anticipated during construction for the Build Alternative include possible sediment transport caused by disturbed soil areas created by construction activities such as excavation and trenching, soil compaction, cut and fill activities, grading, demolition, and bridge construction. Any erosion and siltation that can occur during construction will be from Disturbed Soil Areas (DSA) created by the project's excavation/grading. The potential erosion/siltation will be addressed by the installation and implementation of temporary Best Management Practices (BMPs) identified in the project's Storm Water Pollution Prevention Plan (SWPPP) (PF-WQ-3). Post construction erosion/ siltation is addressed by the installation of permanent soil stabilization BMPs (PF-WQ-4).

(ii) Less than Significant Impact.

The project proposes to increase the impervious surface 2.54 acres. The project will not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite.

(iii) Less than Significant Impact.

The proposed project will not exceed the capacity of the existing or planned storm water drainage systems. As indicated previously, the project may contribute additional sources of pollutants during construction. Potential temporary impacts to water quality that can be anticipated during construction include sediments from grading and excavation operations, trash from workers and construction waste, petroleum products from construction equipment and/or vehicles, concrete waste, sanitary wastes from portable toilets and any other chemicals used for construction such as coolants used for equipment and/or concrete curing compounds.

The project may contribute additional sources of pollutants upon completion of construction. Pollutants typically generated during the operation of a transportation facility include sediment/ turbidity, nutrients, trash and debris, bacteria and viruses, oxygen demanding substances, organic compounds, oil and grease, pesticides and metals. The project will incorporate Design Pollution Prevention (source control) BMPs and post construction treatment BMPs as required by the Caltrans NPDES permit to ensure that adequate measures are included to minimize any potential long-term impacts.

With the implementation of a SWPPP and selected temporary BMPs during construction (PF-WQ-3) as well as evaluating and implementing post construction BMP strategies (PF-WQ-4 and WQ-PF-5), the project will not create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide additional sources of polluted runoff.

- (iv) No Impact: The project will not impede or redirect flood flows.
- (d) No Impact. The project is not in a flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation

e) No Impact

The project will not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. The project will comply with the Statewide Construction General Permit for temporary impacts to water quality (PF-WQ-2) and the Caltrans Statewide NPDES Storm Water Permit (PF-WQ-1)

Avoidance, Minimization, and/or Mitigation Measures

None required, the following project features will be implemented:

PF-WQ-1 The project will comply with the provisions of the National *Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements for the State of California, Department of Transportation, Order No. 2012-0011-DWQ, NPDES No.CAS00003* and the and any subsequent permits in effect at the time of construction an construction.

PF-WQ-2 The project will comply with the provisions of the NPDES *General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit)* Order No.2009-0009-DWQ, NPDES No. CAS000002 and the and any subsequent permits in effect at the time of construction.

PF-WQ-3 The project will comply with the Construction General Permit by preparing and implementing a Storm Water Pollution Prevention Plan (SWPPP) to address all construction-related activities, equipment, and materials that have the potential impact water quality for the appropriate Risk Level. The SWPPP will identify the sources of pollutants that may affect the quality of storm water and include BMPs to control the pollutants, such as sediment control, catch basin inlet protection, construction materials management and non-storm water BMPs. All work must conform to the Construction Site BMP requirements specified in the latest edition of the *Storm Water Quality Handbooks: Construction Site Best Management Practices Manual* to control and minimize the impacts of construction and construction related activities, material and pollutants on the watershed. These include, but are not limited to temporary sediment control, temporary soil stabilization, scheduling, waste management, materials handling, and other non-storm water BMPs.

PF-WQ-4 Design Pollution Prevention Best Management Practices (BMPs) will be implemented such as preservation of existing vegetation, slope/surface protection systems (permanent soil stabilization), concentrated flow conveyance systems such as ditches, berms, dikes and swales, overside drains, flared end sections, and outlet protection/ velocity dissipation devices.

PF-WQ-5 Caltrans approved treatment Best Management Practices (BMPs) will be implemented consistent with the requirements of *National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements for the State of California, Department of Transportation, Order No. 2012-0011-DWQ, NPDES No. CAS00003 and any subsequent permits in effect at the time of construction.*

PF-WQ-6 Any discharges of groundwater to surface waters during construction will be subject to the General Waste Discharge Permit for Discharges to Surface Waters of Groundwater Resulting from Groundwater Dewatering Operations and/or Groundwater Cleanup Activities at Sites Within the San Diego Creek/ Newport Bay Watershed Polluted by Petroleum Hydrocarbons, Solvents, Metals, and/ or Salts (Order No. R8-2007-0042, NPDES NO. CAG918002) and any subsequent updates to the permit at the time of construction.

2.11 Land Use and Planning

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Physically divide an established community?				
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for avoiding or mitigating an environmental effect?				

2.11.1 Discussion of Environmental Evaluation Questions

- a) No Impact: The project limits are within existing freeway with interchanges/ramps, retaining walls, noise barriers (i.e. berms), and other structural features. Existing land uses around the project study area include a mix of commercial and services, industrial, urban and built out, vacant spaces and mixed commercial and industrial uses. Construction of the Build Alternative will require Temporary Construction Easements (TCEs). However, the use of the TCEs are temporary in nature; detours will be provided for any temporary impacts to access of the San Diego Creek Trail on existing public right of way and the temporary use of such land for construction activities would not adversely affect community character, divide existing land uses or existing communities, or create barriers between existing communities. Therefore, there will be no physical divide of an established community and no impacts. o mitigation is required.
- b) **No Impact:** The project does not conflict with any land use plan, policy, or regulation adopted for the purposes of avoiding or mitigating an environmental effect, nor will the project cause any significant environmental impact pertaining to any land use plan, policy or regulation. No mitigation is required.

Avoidance, Minimization, and/or Mitigation Measures

None required, the following project features will be implemented:

PF-REC-1: The property used for temporary construction easement will be restored to a condition at least as good as it was prior to easement being granted

PF-TRA-1: A Transportation Management Plan (TMP) shall be included in the design plans for implementation by the contractor prior to and during construction of any improvements. The TMP shall consist of prior notices, adequate sign posting, detours, phased construction, and temporary driveways where necessary. The TMP shall specify implementation timing of each plan element (e.g., prior notices, sign posting, detours) as determined appropriate by Caltrans. Adequate local emergency access shall always be provided to adjacent uses. Proper detours and warning signs shall be established to ensure public safety. The TMP shall be devised so that construction shall not interfere with any emergency response or evacuation plans. Construction activities shall proceed in a timely manner to reduce impacts.

2.12 Mineral Resources

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				

The potential for the Build Alternative to result in adverse impacts related to mineral resources was assessed based on information from the Orange County General Plan (2005)

2.12.1 Discussion of Environmental Evaluation Questions

a) and b) No Impact: The Resources Element of the Orange County General Plan¹ identified significant construction aggregate resources are available in undisclosed portions of San Juan Creek, Trabuco Canyon, and the Santa Ana River. A review of the Surface Mining and Reclamation Act of 1975 maps² indicates that there are no aggregate production areas in the project study area. In addition, Figure VI-3 in the Resources Element of the Orange County General Plan does not display any mineral resource areas near the project limits. Therefore, there will be no impact to mineral resources from the Build Alternative. No mitigation required.

Avoidance, Minimization, and/or Mitigation Measures

None Required:

2.13 Noise

Would the project result in:	Significant and	Less Than Significant with	Less Than Significant	No Impact
	Unavoidable	Mitigation	Impact	1
	Impact	Incorporated		
a) Generation of a substantial temporary or permanent increase in ambient noise levels near the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
b) Generation of excessive groundborne vibration or groundborne noise levels?				
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				

2.13.1 Discussion of Environmental Evaluation Questions

This discussion is based on the Noise Study Report (September 2019) and the Noise Abatement Decision Report (September 2019)

¹ County of Orange General Plan. 2013. Chapter VI. Resources Element. Website: <u>https://www.ocgov.com/civicax/filebank/blobdload.aspx?blobid=40235</u> (accessed January 25, 2019)

California Geological Survey. 2012. Aggregate Sustainability in California. Website: <u>http://www.conservation.ca.gov/cgs/information/publications/ms/Documents/MS_52_2012.pdf</u> (accessed July 12, 2019).

- a) Less Than Significant Impact: Based on the NSR, the project will generate temporary and permanent increase in ambient noise levels in excess of standards established in Caltrans Traffic Analysis Protocol (Protocol) but are considered less than significant. Certain receptors (42 of 59 in total evaluated) with humanfrequent use areas within the project limits currently experiences traffic noise impacts during the freeway's noisiest traffic hour and with the future-build project will continue to be exposed to traffic noise levels approaching or exceeding Caltrans' noise abatement criteria (NAC). These receptors composed of outside sitting areas of offices and apartment balconies are predicted to experience an increase in noise levels ranging from 0.2 dBA to 1.0 dBA after the project is built. In the Protocol, a substantial noise increase is considered to occur when the project's worst-hour design-year noise level exceeds the existing worst-hour level by 12 dBA or more. Since the increase in noise levels at the impacted receptors are below 12 dBA, the proposed project will not result to a substantial increase in traffic noise in the area. In addition, short-term construction-related noise impacts would occur during the construction of the build alternative. However, construction noise will be controlled by Caltrans' standard specifications section 14-8.02 and therefore temporary noise impacts are also considered less than significant.
- b) Less Than Significant Impact: Construction activities such as pile driving, and the use of vibratory rollers are anticipated to generate the most groundborne vibrations. The closest sensitive receptors (Westview apartments) that may be affected by pile driving activities are approximately 370 feet away. Based on Caltrans Transportation and Construction Vibration Guidance manual, the predicted vibration amplitude (peak particle velocity - PPV) of 0.03 in/sec will be experienced by the building and its occupants. This predicted vibration amplitude is way below 0.5 in/sec which is the suggested appropriate damage potential threshold for new residential structures when the source is continuous (from Table 19 of the guidance manual). This indicates low potential for structural damage to the building. With respect to human perception and annoyance from pile driving activities, the same predicted vibration amplitude of 0.03 in/sec would be categorized in Table 20 of the manual as barely to distinctly perceptible annoyance levels and would indicate that the activity will result to low level of annoyance to building occupants. Vibration amplitude produced by vibratory rollers near sensitive receivers at 103 feet away also resulted with similar PPV and would have low potential for structural damage to buildings and low level of annoyance to building occupants. Groundborne vibration from vehicles driving on the project facilities would not result in any measurable changes in vibration levels compared to existing conditions. Therefore, ground-borne vibration and groundborne noise generated by the project and its construction would be less than significant. No mitigation measures are required.
- c) No Impact: The project is located within the vicinity of a private airstrip. The airstrip, Marine Corps Air Station El Toro, has been decommissioned since 1999. No other airport or airport land use plan is located within 2 miles from the proposed project. Therefore, implementation of the project would not expose people residing or working in the project area to excessive noise levels. No impact and no mitigation measures are required.

Avoidance, Minimization and/or Mitigation

None required, the following project features will be implemented:

PF-N-1 During construction of the Project, noise from construction activities may intermittently dominate the noise environment in the immediate area of construction. Noise associated with construction is controlled by 2018 Caltrans Standard Specification Section 14-8.02, "Noise Control," which states the following: Control and monitor noise resulting from work activities. Do not exceed 86 dBA Lmax at 50 feet from the job site from 9 p.m. to 6 a.m. No mitigation required.

2.14 Population and Housing

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				

2.14.1 Discussion of Environmental Evaluation Questions

a) and b) No Impact. The proposed project is not a capacity increasing project; rather it proposes to improve the operation of the highway facility. The project proposes to construct a new auxiliary lane to address the severe congesting during peak hours. The project will not induce substantial unplanned population growth directly by proposing new homes or businesses nor indirectly through extension of roads or infrastructure. The new auxiliary lane on SB SR-133 from SB I-5 connector to the NB I-405 connector will connect to existing highway facilities and will not increase the capacity of highway facilities. The proposed project will require TCEs from two (2) different Grantors including the City of Irvine (21,520 square feet for Accessor Parcel No. 466-102-02), and Toyota Motor Sales USA (8445 square feet Accessor Parcel No 466-101-13) However, the TCEs will be temporary in nature and will not displace or relocate numbers of people or houses necessitating the construction of replacement housing elsewhere. Therefore, there will be no impacts to populations and housing. No mitigation required.

Avoidance, Minimization, and/or Mitigation Measures

None required, the following project features will be implemented:

PF-REC 1: The property used for temporary construction easement will be restored to a condition at least as good as it was prior to easement being granted.

2.15 Public Services

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
i. Fire protection?				
ii. Police protection?				
iii. Schools?				
iv. Parks?				\boxtimes
v. Other public facilities?				\boxtimes

2.15.1 Discussion of Environmental Evaluation Questions

Fire Protection—Less than significant impact.

The proposed project will not permanently impact acceptable service ratios, response times or other performance objectives for fire protection. Due to the nature of construction activities certain lanes of the highway facility may be temporarily closed for construction. Thus, fire protection services may be temporarily impacted. However, a Transportation Management Plan (TMP) will be prepared to minimize construction activity-related delays by the effective application of traditional traffic handling practices. As part of the TMP, Caltrans District 12 Orange County office would coordinate with emergency response providers to ensure the project does not interfere with emergency response times. Therefore, no mitigation is required.

Police Protection—Less than significant impact.

The proposed project will not permanently impact acceptable service ratios, response times or other performance objectives for police protection. Due to the nature of construction activities certain lanes of the highway facility may be temporarily closed for construction. Thus, fire protection services may be temporarily impacted. However, a Transportation Management Plan (TMP) will be prepared to minimize construction activity-related delays by the effective application of traditional traffic handling practices. As part of the TMP, Caltrans District 12 Orange County office would coordinate with emergency response

providers to ensure the project does not interfere with emergency response times. Therefore, no mitigation is required.

Schools—No Impact

There are no schools in the project area. Therefore, no schools will be impacted. No mitigation is required.

Parks—No impact

There are no parks in the project area. Therefore, no parks will be impacted. No mitigation is required.

Other Public Facilities—No impact

There are no other public facilities in the project. Therefore, no parks will be impacted. No mitigation is required.

Avoidance, Minimization, and/or Mitigation Measures

None required; however, the following project feature will be implemented:

PF-TRA-1: A Transportation Management Plan (TMP) shall be included in the design plans for implementation by the contractor prior to and during construction of any improvements. The TMP shall consist of prior notices, adequate sign posting, detours, phased construction, and temporary driveways where necessary. The TMP shall specify implementation timing of each plan element (e.g., prior notices, sign posting, detours) as determined appropriate by Caltrans. Adequate local emergency access shall be provided at all times to adjacent uses. Proper detours and warning signs shall be established to ensure public safety. The TMP shall be devised so that construction shall not interfere with any emergency response or evacuation plans. Construction activities shall proceed in a timely manner to reduce impacts.

2.16 Recreation

	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				

2.16.1 Discussion of Environmental Evaluation Questions

- a) Less than significant impact. The Build alternative will require two (2) Temporary Construction Easements (TCEs) that includes the City of Irvine (21,520 square feet for Accessor Parcel No. 466-102-02) and Toyota Motor Sales USA (8445 square feet Accessor Parcel No 466-101-13) to access the San Diego Trail. This temporarily limits the public's use to the San Diego Creek trail from this location during construction at the project. This temporary trail location access impact will not increase use on nearby bicycle facilities by means of bicycle detours. However, the temporary use of other bicycle facilities for detours will not cause substantial physical deterioration of the facility to occur or be accelerated. Once the project is completed, the San Diego Creek Trail will reopen with no changes to the recreational facility. Implementation of the following measures below will minimize impacts (if any) to the San Diego Creek Bike Trail facility. Therefore, no mitigation is required.
- **b) No Impact**. The Build alternative does not include the construction or expansion of recreational facilities.

Avoidance, Minimization, and/or Mitigation Measures

None required; however, the following project feature will be implemented

- PF-TRA-1 A Transportation Management Plan (TMP) shall be included in the design plans for implementation by the contractor prior to and during construction of any improvements. The TMP shall consist of prior notices, adequate sign posting, detours, phased construction, and temporary driveways where necessary. The TMP shall specify implementation timing of each plan element (e.g., prior notices, sign posting, detours) as determined appropriate by Caltrans. Adequate local emergency access shall be provided at all times to adjacent uses. Proper detours and warning signs shall be established to ensure public safety. The TMP shall be devised so that construction shall not interfere with any emergency response or evacuation plans. Construction activities shall proceed in a timely manner to reduce impacts.
- PF-BIO-1 To avoid impacts to any nesting birds, ground disturbance that occurs during the nesting bird season (February 1 September 30) will require nesting bird surveys by a Caltrans Biologist within 72 hours prior to the start of work. The Caltrans Biologist will be contacted at least one week ahead of time to schedule a survey
- **PF-BIO-2**To avoid the spread of invasive plant species, all vegetation being removed should be disposed of properly. If vegetation is planted on site, the Caltrans Biologist and Landscape Architect will coordinate and approve the proposed vegetation to be planted.
- PF-WQ-2 The project will comply with the provisions of the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) Order No. 2009-0009-DWQ, NPDES General Permit No. CAS000002 and any subsequent permits in effect at the time of construction.

PF-N-1

During construction of the Project, noise from construction activities may intermittently dominate the noise environment in the immediate area of construction. Noise associated with construction is controlled by 2018 Caltrans Standard Specification Section 14-8.02, "Noise Control," which states the following: Control and monitor noise resulting from work activities. Do not exceed 86 dBA Lmax at 50 feet from the job site from 9 p.m. to 6 a.m.

PF-REC-1:

The property used for temporary construction easement will be restored to a condition at least as good as it was prior to easement being granted

REC-1:

Caltrans will coordinate with the City of Irvine during the Design phase to ensure collaborative communication among stakeholders. The purpose of these meetings will be to inform the City and its residents about the project's progress and any temporary and/or permanent impacts to the project location. During the Design phase when information on detours and the Traffic Management Plan (TMP) become available, Caltrans will coordinate with the City of Irvine to finalize a detour and ensure that all detours outlined in the TMP be approved and implemented accordingly. Caltrans will continue to keep the City informed on project development and coordinate with the City as needed.

2.17 Transportation/Traffic

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?				
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?				
NOTE: While public agencies may immediately apply Section 15064.3 of the updated Guidelines, statewide application is not required until July 1, 2020. In addition, uniform statewide guidance for Caltrans projects is still under development. The PDT may determine the appropriate metric to use to analyze traffic impacts pursuant to section 15064.3(b). Projects for which an NOP will be issued any time after December 28th, 2018 should consider including an analysis of VMT/induced demand if the project has the potential to increase VMT (see page 20 of OPR's updated SB 743 Technical Advisory), particularly if the project will be approved after July 2020.				

c) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?		
d) Result in inadequate emergency access?		

2.17.1 Discussion of Environmental Evaluation Question

a) Less than Significant Impact. The project complies with Objective B-1 of the City of Irvine's General Plan Circulation element: Plan, provide and maintain an integrated vehicular circulation system to accommodate projected local and regional needs. The project is included in the 2019 Federal Transportation Improvement Plan and the District 12 District System Management Plan.

A section of the San Diego Creek Bikeway/Trail will be temporarily closed during construction, however, a detour around the construction area will be provided allowing the public to continue to use the facility.

- **b) No Impact.** The intent of the project is to improve the operations the facility. The improvements are not considered capacity increasing. The project will have no impact on Vehicle Miles Travelled (VMT).
- **c) No Impact**. The addition of an auxiliary lane will not introduce any new or substantial hazards due to geometric design features or incompatible uses. All components of the project will meet Caltrans design standards. Therefore, no impact and no mitigation is required.
- **d)** Less than Significant Impact. The project will not result in inadequate emergency access. Transportation Management Plan (TMP) will be prepared and implemented so that traffic (e.g. emergency vehicles) will be able to pass through the project area during construction, at all times.

Avoidance, Minimization, and/or Mitigation Measures

None required, the following project features will be implemented:

PF-TRA-1: A Transportation Management Plan (TMP) shall be included in the design plans for implementation by the contractor prior to and during construction of any improvements. The TMP shall consist of prior notices, adequate sign posting, detours, phased construction, and temporary driveways where necessary. The TMP shall specify implementation timing of each plan element (e.g., prior notices, sign posting, detours) as determined appropriate by Caltrans. Adequate local emergency access shall be provided at all times to adjacent uses. Proper detours and warning signs shall be established to ensure public safety. The TMP shall be devised so that construction shall not interfere with any emergency response or evacuation plans. Construction activities shall proceed in a timely manner to reduce impacts.

2.18 Tribal Cultural Resources

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:	Significant and Unavoidab le Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or				
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.				

2.18.1 CEQA Significance Determinations for Tribal Cultural Resources

The potential for the Build Alternative to result in significant impacts related to tribal cultural resources was assessed as part of Native American consultation conducted during preparation of the Historic Property Survey Report (HPSR; January 2020).

- a) No impact. A record search of the Area of Potential Effects (APE) and a 1-mile radius around the APE was conducted on July 24, 2019, at the South Central Coastal Information Center (SCCIC) of the California Historical Resources Information System (CHRIS), located at California State University, Fullerton. On July 26, 2019, an archaeological field survey was conducted. No cultural resources have been previously recorded in the APE. No cultural resources were identified during the field survey. As such, there are no cultural resources or tribal cultural resources within the APE that are listed or eligible for listing in the California Register or in a local register that will be impacted by the project. No mitigation is required.
- b) No Impact Native American consultation per Assembly Bill 52 was conducted for this project. The Native American Heritage Commission (NAHC) was contacted on July 1, 2019, with a follow-up on July 18, 2019, to conduct a Sacred Lands File (SLF) search and provide a Native American Tribal Consultation List for the Project site. The NAHC responded on July 19, 2019, stating that an SLF search was completed for the APE with negative results. The NAHC also recommended that 17 Native American individuals representing the Cahuilla, Gabrielino, Juaneño, Cupeño, and Luiseño groups be contacted for information regarding cultural resources that could be affected by the proposed project.

The following Native American tribes, groups, and individuals were contacted via letter sent on August 1, 2019:

Agua Caliente Band of Cahuilla Indians, Jeff Grubbe, Chairperson

- Gabrieleno Band of Mission Indians Kizh Nation, Andrew Salas, Chairperson
- Gabrieleno/Tongva San Gabriel Band of Mission Indians, Anthony Morales, Chairperson
- Gabrielino/Tongva Nation, Sandonne Goad, Chairperson
- Gabrielino Tongva Indians of California Tribal Council, Robert Dorame, Chairperson
- Gabrielino-Tongva Tribe, Charles Alvarez
- Juaneño Band of Mission Indians, Sonia Johnston, Chairperson
- Juaneño Band of Mission Indians Acjachemen Nation, Matias Belardes, Chairperson
- Juaneño Band of Mission Indians Acjachemen Nation Romero, Teresa Romero, Chairperson
- La Jolla Band of Luiseño Indians, Fred Nelson, Chairperson
- Pala Band of Mission Indians, Robert Smith, Chairperson
- Pauma Band of Luiseño Indians, Temet Aguilar, Chairperson
- Pechanga Band of Luiseño Indians, Mark Macarro, Chairperson
- Rincon Band of Luiseño Indians, Jim McPherson, Tribal Historic Preservation Officer
- Rincon Band of Luiseño Indians, Bo Mazzetti, Chairperson
- San Luis Rey Band of Mission Indians, San Luis Rey Tribal Council
- Soboba Band of Luiseño Indians, Scott Cozart, Chairperson

Three responses were received as a result of the initial project notification letters. These responses were from the Gabrieleno Band of Mission Indians – Kizh Nation, the Rincon Band of Luiseño Indians, and the Agua Caliente Band of Cahuilla Indians. The Gabrieleno Band of Mission Indians – Kizh Nation requested consultation on August 12, 2019, but did not respond to follow-up communications from the California Department of Transportation (Caltrans) attempting to set up consultation appointments and/or meetings.

On August 14, 2019, a letter response was received from the Rincon Band of Luiseño Indians. The letter stated that the project is not within Luiseño Aboriginal Territory and the tribe recommends locating a tribe within the project area.

On August 26, 2019, an email response was received from the Agua Caliente Band of Cahuilla Indians. The email stated that the project is not located within the Tribe's Traditional Use Area and they defer to other tribes in the area. Two responses were received as a result of follow-up communications. On September 4, 2019, the Pala Band of Mission Indians responded via email and stated that the project is outside the boundaries of Pala's Traditional Use Area and they defer to closer Tribes. The tribe also stated that the project is near known archaeological sites and recommended that Native American monitoring be considered as a requirement for the project.

On September 5, 2019, the Juaneño Band of Mission Indians Acjachemen Nation, replied via email and stated that the only area of the project the tribe was concerned with is the creek area, and requested to be kept updated on the project. On September 9, 2019, Caltrans replied via email with a message that included an image depicting the project area and a project vicinity map, and described work within the creek area. Caltrans then asked if the tribe needed any additional information. No further communication has been received from the tribe.

No additional responses were received as a result of the initial letter or follow-up communications.

The Sacred Lands File failed to identify any sacred lands or tribal resources in or near the APE, and no sacred lands or tribal cultural resources were identified as a result of the Native American consultation process. As such, there will be no impact to tribal cultural resources as a result of the project.

Avoidance, Minimization and/or Mitigation measures:

None required

2.19 Utilities and Service Systems

Would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?				
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				
c) (originally (e)) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				
e) (originally (g)) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				

2.19.1 Discussion of Environmental Evaluation Questions

- a) No Impact: The project would not require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects. There is no impact and no mitigation required.
- b) **No Impact:** The project would have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years. No mitigation is required.

- c) No Impact: The project would not result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments. No mitigation is required.
- d) **No Impact:** The project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. No mitigation is required.
- e) **No Impact:** The project construction crew would be responsible for controlling and disposing of solid waste in accordance with federal, state and local statutes and regulations. No mitigation is required.

Avoidance, Minimization, and/or Mitigation Measures

None required.

2.20 Wildfire

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?				
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?				
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?				
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?				

2.20.1 Discussion of Environmental Evaluation Questions

Senate Bill 1241 required the Office of Planning and Research, the Natural Resources Agency, and the California Department of Forestry and Fire Protection to develop amendments to the "CEQA Checklist" for the inclusion of questions related to fire hazard impacts for projects located on lands classified as very high fire hazard severity zones. The project occurs in a highly flammable area due to large quantities of combustible vegetation, poor access to fire hazard areas, and lack of water supply for fire protection in fire hazard areas. The City of Irvine has a contract with the Orange County Fire Authority for fire-fighting services within the City.

- a) No Impact. Although the City of Irvine is at risk for wildfires, the project limits are not part/rated as a high fire severity rating and open space with fire potential area (Figure J-2 of the City of Irvine General Plan). The project is adjacent to a Conditional Exclusion Developed Area per the General Plan. This area of the city is more urbanized; high hazard areas are predominantly in the hilly portions of the City with volatile chaparral as the fuel source. Access through the project area will be maintained at all times during construction. Emergency response Plans or Emergency evacuation plans will not be impeded. Access through the project area will be maintained at all times during construction. Emergency response Plans or Emergency evacuation plans will not be impeded. Therefore, no impacts are anticipated, and no mitigation is required.
- b) No Impact. Although the City of Irvine is at risk for wildfires, the project limits are not part/rated as a high fire severity rating and open space with fire potential area (Figure J-2 of the City of Irvine General Plan). The project is adjacent to a Conditional Exclusion Developed Area per the General Plan. This area of the city is more urbanized; high hazard areas are predominantly in the hilly portions of the City with volatile chaparral as the fuel source. Depending on what season the project goes into construction, there is an increased risk in the prevailing Santa Ana winds which create hot and dry conditions in the winter and have the potential to help exacerbate the risk for wildfire. Therefore, there is a potential that in the event of a wildfire, project occupants could be exposed to pollutant concentrations of wildfire and/or be exposed to the spread of wildfire. However, this area is relatively flat compared with the rest of the city; the project location lacks suitable habitat for most vegetation as the area is sparse in any vegetation that could increase chances of fire spreading.
 - c) Less Than Significant Impact: Although the project will require the installation of additional roadway and bridge pavement; this will increase the width of the road as a firebreak, reduce vegetation adjacent to the roadside, and provide additional areas for emergency response vehicle staging. Any damaged irrigation will be replaced in kind where necessary and where there is vegetation removal and replacement, replacement planting will be native grasses and drought tolerant plants. Therefore, impacts will be less than significant, and no mitigation is required.
 - d) No Impact: The project will not expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. No impacts are anticipated, no mitigation is required.

Avoidance, Minimization, and/or Mitigation Measures

None required; however, the following project features **PF-BIO-2** and **PF-WQ-1 through PF-WQ-6** will be implemented.

2.21 Mandatory Findings of Significance

	Significant and Unavoidable Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?				
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				

2.21.1 Discussion of Environmental Evaluation Questions

The California Environmental Quality Act (CEQA) requires the analysis of a project's mandatory findings of significance. The analysis of the mandatory findings of significance of the project is based on the findings of the project's impacts on all the required issue areas.

Cumulative impacts are those that result from past, present, and reasonably foreseeable future actions, combined with the potential impacts of this project. A cumulative effect assessment looks at the collective impacts posed by individual land use plans and projects. Cumulative impacts can result from individually minor, but collectively substantial impacts taking place over a period of time.

Cumulative impacts to resources in the project area may result from residential, commercial, industrial, and highway development, as well as from agricultural development and the conversion to more intensive types of agricultural cultivation. These land use activities can degrade habitat and species diversity through consequences such as displacement and fragmentation of habitats and populations, alteration of hydrology, contamination, erosion, sedimentation, and disruption of migration corridors, changes in water quality, and introduction or promotion of predators. They can also contribute to potential community impacts identified for the project, such as changes in community character, traffic patterns, housing availability, and employment.

California Environmental Quality Act (CEQA) Guidelines, Section 15130, describes when a cumulative impact analysis is warranted and what elements are necessary for an adequate discussion of cumulative impacts. The definition of cumulative impacts, under CEQA, can be found in Section 15355 of the CEQA Guidelines.

2.19.1 Discussion of Environmental Evaluation Questions

- a) Less Than Significant with Mitigation: Although the project is located within the natural community (San Diego Creek) considered sensitive by CDFW, USACOE and RWQCB, the creek does not support riparian or sensitive habitat identified in local or regional plans. policies or regulations by CDFW and USFWS due to past alterations of the creek to support bridge structures. Due to lack of suitable habitat within the BSA, the project is not anticipated to impact special status plant species. Due to the extensive modifications of the bridge in the past, and the lack of historic evidence of anadromous fish passages within the creek, the project is not anticipated to affect fish passage within the biological study area. No bats were observed during the bat habitat assessment, however one year prior to construction, bat assessment surveys will be conducted to determine the presence of bats within the bridge and additional appropriate measures will be included during Design. Impacts to wildlife and wildlife movement are temporary in nature and with implementation of PF-BIO-1 and 2, plus BIO-1 through BIO-8 avoidance and or minimization measures, the impacts to wildlife will be less than significant. The project does have the potential to impact geologic units that have high paleontological sensitivity (e.g. the Young Alluvial Fan Deposits below a depth of 10 ft and the Vagueros Formation). This would result in scientifically significant, non-renewable paleontological resources. However, with the implementation of Mitigation Measure PAL-1 all potential degradation impacts to geology and soils (paleontological resources) will be reduced to the level of less than significant impact.
- b) Less Than Significant Impact Although the project may have impacts that are individually limited, these impacts will not be cumulatively considerable, and impacts will be less than significant. There are currently no capacity increasing or operational improvement projects currently in construction in this portion SR-133. There are a few scattered bridge maintenance projects near or around the project location and vicinity. However, these project work activities are for maintenance purposes minimal in scale, impact and duration of construction would be temporary and short in nature; thus having a less than significant impact relative to projects of the past, present in future in the project area.
- c) **No Impact**. This project will not have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly. Refer to the discussion in the other sections for additional information that supports this finding.

Avoidance, Minimization, and/or Mitigation Measures

With the implementation of the Mitigation Measure PAL-1, plus Avoidance, Minimization measures as stated in the previous sections, impacts would be reduced to Less Than Significant.

Chapter 3 - Climate Change

3.1 Climate Change

Climate change refers to long-term changes in temperature, precipitation, wind patterns, and other elements of the earth's climate system. An ever-increasing body of scientific research attributes these climatological changes to greenhouse gas (GHG) emissions, particularly those generated from the production and use of fossil fuels.

While climate change has been a concern for several decades, the establishment of the Intergovernmental Panel on Climate Change (IPCC) by the United Nations and World Meteorological Organization in 1988 led to increased efforts devoted to GHG emissions reduction and climate change research and policy. These efforts are primarily concerned with the emissions of GHGs generated by human activity, including carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), tetrafluoromethane, hexafluoroethane, sulfur hexafluoride (SF6), and various hydrofluorocarbons (HFCs). CO₂ is the most abundant GHG; while it is a naturally occurring component of Earth's atmosphere, fossil-fuel combustion is the main source of additional, human-generated CO₂.

Two terms are typically used when discussing how we address the impacts of climate change: "greenhouse gas mitigation" and "adaptation." Greenhouse gas mitigation covers the activities and policies aimed at reducing GHG emissions to limit or "mitigate" the impacts of climate change. Adaptation, on the other hand, is concerned with planning for and responding to impacts resulting from climate change (such as adjusting transportation design standards to withstand more intense storms and higher sea levels). This analysis will include a discussion of both.

3.2 REGULATORY SETTING

This section outlines federal and state efforts to comprehensively reduce GHG emissions from transportation sources.

3.2.1 Federal

To date, no national standards have been established for nationwide mobile-source GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at the project level.

The National Environmental Policy Act (NEPA) (42 United States Code [USC] Part 4332) requires federal agencies to assess the environmental effects of their proposed actions prior to making a decision on the action or project.

The Federal Highway Administration (FHWA) recognizes the threats that extreme weather, sea-level change, and other changes in environmental conditions pose to valuable transportation infrastructure and those who depend on it. FHWA therefore supports a sustainability approach that assesses vulnerability to climate risks and incorporates resilience into planning, asset management, project development and design, and operations and maintenance practices (FHWA 2019). This approach encourages planning for sustainable highways by addressing climate risks while balancing environmental, economic, and social values— "the triple bottom line of sustainability" (FHWA n.d.). Program and project elements

that foster sustainability and resilience also support economic vitality and global efficiency, increase safety and mobility, enhance the environment, promote energy conservation, and improve the quality of life.

Various efforts have been promulgated at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects. The most important of these was the Energy Policy and Conservation Act of 1975 (42 USC Section 6201) and Corporate Average Fuel Economy (CAFE) Standards. This act establishes fuel economy standards for on-road motor vehicles sold in the United States. Compliance with federal fuel economy standards is determined through the CAFE program based on each manufacturer's average fuel economy for the portion of its vehicles produced for sale in the United States.

Energy Policy Act of 2005, 109th Congress H.R.6 (2005–2006): This act sets forth an energy research and development program covering: (1) energy efficiency; (2) renewable energy; (3) oil and gas; (4) coal; (5) the establishment of the Office of Indian Energy Policy and Programs within the Department of Energy; (6) nuclear matters and security; (7) vehicles and motor fuels, including ethanol; (8) hydrogen; (9) electricity; (10) energy tax incentives; (11) hydropower and geothermal energy; and (12) climate change technology.

The U.S. EPA in conjunction with the National Highway Traffic Safety Administration (NHTSA) is responsible for setting GHG emission standards for new cars and light-duty vehicles to significantly increase the fuel economy of all new passenger cars and light trucks sold in the United States. Fuel efficiency standards directly influence GHG emissions.

3.2.2 State

California has been innovative and proactive in addressing GHG emissions and climate change by passing multiple Senate and Assembly bills and executive orders (EOs) including, but not limited to, the following:

EO S-3-05 (June 1, 2005): The goal of this EO is to reduce California's GHG emissions to: (1) year 2000 levels by 2010, (2) year 1990 levels by 2020, and (3) 80 percent below year 1990 levels by 2050. This goal was further reinforced with the passage of Assembly Bill (AB) 32 in 2006 and Senate Bill (SB) 32 in 2016.

AB 32, Chapter 488, 2006, Núñez and Pavley, The Global Warming Solutions Act of 2006: AB 32 codified the 2020 GHG emissions reduction goals outlined in EO S-3-05, while further mandating that the California Air Resources Board (CARB) create a scoping plan and implement rules to achieve "real, quantifiable, cost-effective reductions of greenhouse gases." The Legislature also intended that the statewide GHG emissions limit continue in existence and be used to maintain and continue reductions in emissions of GHGs beyond 2020 (Health and Safety Code [H&SC] Section 38551(b)). The law requires CARB to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG reductions.

EO S-01-07 (January 18, 2007): This order sets forth the low carbon fuel standard (LCFS) for California. Under this EO, the carbon intensity of California's transportation fuels is to be reduced by at least 10 percent by the year 2020. CARB re-adopted the LCFS regulation in September 2015, and the changes went into effect on January 1, 2016. The program

establishes a strong framework to promote the low-carbon fuel adoption necessary to achieve the Governor's 2030 and 2050 GHG reduction goals.

SB 375, Chapter 728, 2008, Sustainable Communities and Climate Protection: This bill requires CARB to set regional emissions reduction targets for passenger vehicles. The Metropolitan Planning Organization (MPO) for each region must then develop a "Sustainable Communities Strategy" (SCS) that integrates transportation, land-use, and housing policies to plan how it will achieve the emissions target for its region.

SB 391, Chapter 585, 2009, California Transportation Plan: This bill requires the State's long-range transportation plan to identify strategies to address California's climate change goals under AB 32.

EO B-16-12 (March 2012) orders State entities under the direction of the Governor, including CARB, the California Energy Commission, and the Public Utilities Commission, to support the rapid commercialization of zero-emission vehicles. It directs these entities to achieve various benchmarks related to zero-emission vehicles.

EO B-30-15 (April 2015) establishes an interim statewide GHG emission reduction target of 40 percent below 1990 levels by 2030 to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050. It further orders all state agencies with jurisdiction over sources of GHG emissions to implement measures, pursuant to statutory authority, to achieve reductions of GHG emissions to meet the 2030 and 2050 GHG emissions reductions targets. It also directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent (MMTCO₂e).¹ Finally, it requires the Natural Resources Agency to update the state's climate adaptation strategy, Safeguarding California, every 3 years, and to ensure that its provisions are fully implemented.

SB 32, Chapter 249, 2016, codifies the GHG reduction targets established in EO B-30-15 to achieve a mid-range goal of 40 percent below 1990 levels by 2030.

SB 1386, Chapter 545, 2016, declared "it to be the policy of the state that the protection and management of natural and working lands ... is an important strategy in meeting the state's greenhouse gas reduction goals, and would require all state agencies, departments, boards, and commissions to consider this policy when revising, adopting, or establishing policies, regulations, expenditures, or grant criteria relating to the protection and management of natural and working lands."

AB 134, Chapter 254, 2017, allocates Greenhouse Gas Reduction Funds and other sources to various clean vehicle programs, demonstration/pilot projects, clean vehicle rebates and projects, and other emissions-reduction programs statewide.

Senate Bill 743, Chapter 386 (September 2013): This bill changes the metric of consideration for transportation impacts pursuant to CEQA from a focus on automobile delay to alternative

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GHGs differ in how much heat each trap in the atmosphere (global warming potential, or GWP). CO₂ is the most important GHG, so amounts of other gases are expressed relative to CO₂, using a metric called "carbon dioxide equivalent" (CO₂e). The global warming potential of CO₂ is assigned a value of 1, and the GWP of other gases is assessed as multiples of CO₂.

methods focused on vehicle miles travelled, to promote the state's goals of reducing greenhouse gas emissions and traffic related air pollution and promoting multimodal transportation while balancing the needs of congestion management and safety.

Senate Bill 150, Chapter 150 2017, Regional Transportation Plans: This bill requires CARB to prepare a report that assesses progress made by each metropolitan planning organization in meeting their established regional greenhouse gas emission reduction targets.

Executive Order B-55-18, (September 2018) sets a new statewide goal to achieve and maintain carbon neutrality no later than 2045. This goal is in addition to existing statewide targets of reducing GHG emissions.

EO N-19-19 (September 2019) advances California's climate goals in part by directing the California State Transportation Agency to leverage annual transportation spending to reverse the trend of increased fuel consumption and reduce GHG emissions from the transportation sector. It orders a focus on transportation investments near housing, managing congestion, and encouraging alternatives to driving. This EO also directs ARB to encourage automakers to produce more clean vehicles, formulate ways to help Californians purchase them, and propose strategies to increase demand for zero-emission vehicles.

3.3 ENVIRONMENTAL SETTING

The proposed project is in an urban area of Orange County with a well-developed road and street network. The California Department of Transportation (Caltrans) is proposing to improve the South Bound (SB) State Route (Rte) 133 in between Post Mile (PM) 8.3 and PM M9.3 in the city of Irvine. During the AM peak hours, this segment of the route experiences a long queue of vehicles. This long queue is a result of heavy congestion on the NB I-405 mainline that is not permitting the traffic to flow through the connector at its design rate. Trucks represents 4.5% of total vehicle volume. Land uses near this segment of the route are primarily urban, commercial and residential. The Southern California Association of Governments' (SCAG) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) guides transportation development in the project area.

A GHG emissions inventory estimates the amount of GHGs discharged into the atmosphere by specific sources over a period of time, such as a calendar year. Tracking annual GHG emissions allows countries, states, and smaller jurisdictions to understand how emissions are changing and what actions may be needed to attain emission reduction goals. U.S. EPA is responsible for documenting GHG emissions nationwide, and the CARB does so for the state, as required by H&SC Section 39607.4.

3.3.1 National GHG Inventory

The U.S. EPA prepares a national GHG inventory every year and submits it to the United Nations in accordance with the Framework Convention on Climate Change. The inventory provides a comprehensive accounting of all human-produced sources of GHGs in the United States, reporting emissions of CO₂, CH₄, N₂O, HFCs, perfluorocarbons, SF6, and nitrogen trifluoride. It also accounts for emissions of CO₂ that are removed from the atmosphere by "sinks" such as forests, vegetation, and soils that uptake and store CO₂ (carbon sequestration). The 1990–2016 inventory found that of 6,511 MMTCO₂e GHG emissions in 2016, 81% consist of CO₂, 10% are CH₄, and 6% are N₂O; the balance consists of fluorinated

gases (EPA 2018a). In 2016, GHG emissions from the transportation sector accounted for nearly 28.5% of U.S. GHG emissions (See Figure 3.1).

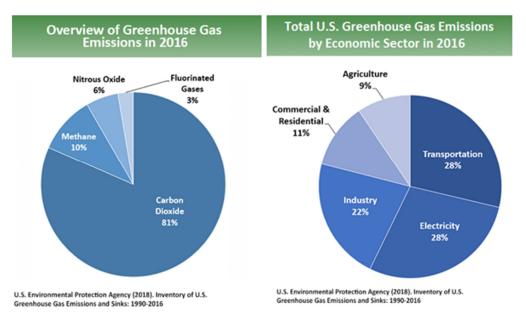


Figure 3-1 U.S. 2016 Greenhouse Gas Emissions

3.3.2 State GHG Inventory

ARB collects GHG emissions data for transportation, electricity, commercial/residential, industrial, agricultural, and waste management sectors each year. It then summarizes and highlights major annual changes and trends to demonstrate the state's progress in meeting its GHG reduction goals. The 2019 edition of the GHG emissions inventory found total California emissions of 424.1 MMTCO₂e for 2017, with the transportation sector responsible for 41% of total GHGs (See Figure 3.2). It also found that overall statewide GHG emissions declined from 2000 to 2017 despite growth in population and state economic output (ARB 2019a).

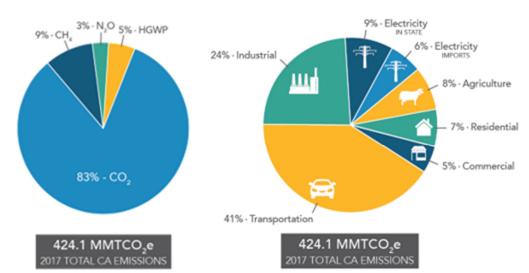
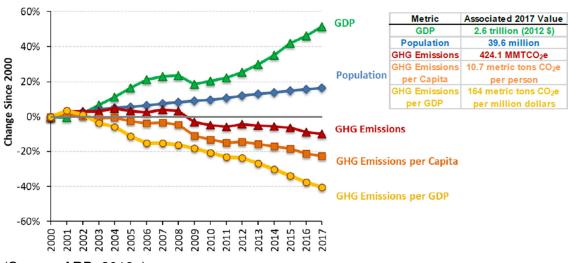


Figure 3-2 California 2017 Greenhouse Gas Emissions

Figure 3-3 Change in California GDP, Population, and GHG Emissions since 2000



(Source: ARB, 2019a)

AB 32 required ARB to develop a Scoping Plan that describes the approach California will take to achieve the goal of reducing GHG emissions to 1990 levels by 2020, and to update it every 5 years. ARB adopted the first scoping plan in 2008. The second updated plan, California's 2017 Climate Change Scoping Plan, adopted on December 14, 2017, reflects the 2030 target established in EO B-30-15 and SB 32. The AB 32 Scoping Plan and the subsequent updates contain the main strategies California will use to reduce GHG emissions.

3.3.3 Regional Plans

CARB sets regional targets for California's 18 MPOs to use in their RTP/SCSs to plan future projects that will cumulatively achieve GHG reduction goals. Targets are set at a percent reduction of passenger vehicle GHG emissions per person from 2005 levels. The Metropolitan Planning Organization (MPO) for this project is Southern California Association of Governments (SCAG). GHG reduction targets the SCAG region are 8% by 2020 and 19% by 2035 (ARB 2019c). Table 3.1 shows the regional and local greenhouse gas reduction plans.

The Orange County Transportation Authority and Orange County Council of Governments published the *Orange County Sustainable Communities Strategy* in 2011, developed to be integrated with the SCAG SCS. The Orange County SCS offers sustainability strategies to reduce GHG emissions from land use and transportation. In addition, the City of Irvine is in the process of developing a climate action plan.

Table 3-1 Regional and Local Greenhouse Gas Reduction Plans

Title	GHG Reduction Policies or Strategies
Southern California Association of Governments (SCAG) 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy, Adopted April 2016	 Preserve the region's multi-modal system Transportation system management (TSM) Encourage use of clean technology trucks Strategic capacity and technology enhancements to existing highways
Orange County Sustainable Communities Strategy (2011)	 Eliminate bottlenecks and reduce delay on freeways, toll roads, and arterials. Managing the transportation system (TSM) through measures that maximize the efficiency of the transportation network.

3.4 PROJECT ANALYSIS

GHG emissions from transportation projects can be divided into those produced during operation of the SHS and those produced during construction. The primary GHGs produced by the transportation sector are CO_2 , CH_4 , N_2O , and HFCs. CO_2 emissions are a product of the combustion of petroleum-based products, like gasoline, in internal combustion engines. Relatively small amounts of CH_4 and N_2O are emitted during fuel combustion. In addition, a small amount of HFC emissions are included in the transportation sector.

The CEQA Guidelines generally address greenhouse gas emissions as a cumulative impact due to the global nature of climate change (Pub. Resources Code, § 21083(b)(2)). As the California Supreme Court explained, "because of the global scale of climate change, any one project's contribution is unlikely to be significant by itself." (Cleveland National Forest Foundation v. San Diego Assn. of Governments (2017) 3 Cal.5th 497, 512.) In assessing cumulative impacts, it must be determined if a project's incremental effect is "cumulatively considerable" (CEQA Guidelines Sections 15064(h)(1) and 15130).

To make this determination, the incremental impacts of the project must be compared with the effects of past, current, and probable future projects. Although climate change is ultimately

a cumulative impact, not every individual project that emits greenhouse gases must necessarily be found to contribute to a significant cumulative impact on the environment.

3.4.1 Operational Emissions

CO₂ accounts for 95 percent of transportation GHG emissions in the U.S. The largest sources of transportation-related GHG emissions are passenger cars and light-duty trucks, including sport utility vehicles, pickup trucks, and minivans. These sources account for over half of the emissions from the sector. The remainder of GHG emissions comes from other modes of transportation, including freight trucks, commercial aircraft, ships, boats, and trains, as well as pipelines and lubricants. Because CO₂ emissions represent the greatest percentage of GHG emissions it has been selected as a proxy within the following analysis for potential climate change impacts generally expected to occur.

The highest levels of CO₂ from mobile sources such as automobiles occur at stop-and-go speeds (0–25 miles per hour) and speeds over 55 miles per hour; the most severe emissions occur from 0–25 miles per hour (see Figure 3.4). To the extent that a project relieves congestion by enhancing operations and improving travel times in high-congestion travel corridors, GHG emissions, particularly CO₂, may be reduced.

Four primary strategies can reduce GHG emissions from transportation sources: (1) improving the transportation system and operational efficiencies, (2) reducing travel activity, (3) transitioning to lower GHG-emitting fuels, and (4) improving vehicle technologies/efficiency. To be most effective, all four strategies should be pursued concurrently.

1,000 Real-world activity 900 Steady-state activity 800 CONGESTION MITIGATION 700 CO₂ EMISSIONS (G/MI) SPEED 600 MANAGEMENT 500 400 300 200 TRAFFIC SMOOTHING 100 AVERAGE SPEED (MPH)

Figure 3-4 Possible Use of Traffic Operation Strategies in Reducing On-road CO2 Emissions

Source: Barth and Boriboonsomsin 2010

The project is located in the city of Irvine, Orange County, for which SCAG is the metropolitan planning organization. The proposed project is listed in the SCAG 2016 RTP/SCS (project ID: REG0701), SCAG's 2016 RTP/SCS complies with the emission reduction targets established by the California Air Resources Board (ARB) and meets the requirements of SB 375 as codified in Government Code §65080(b) et seq. by achieving per capita GHG emission reductions relative to 2005 of 8 percent by 2020 and 18 percent by 2035, which meets or exceeds targets set by ARB at the time the RTP/SCS was prepared. The project will assist the region with its overall goals to reduce vehicle-related GHGs by relieving congestion and improving traffic flow, thereby reducing emissions. This is consistent with the RTP/SCS's identified strategies to manage congestion by maximizing the current system and ensuring it operates with maximum efficiency and effectiveness (Caltrans 2019a: 56).

Quantitative Analysis

This alternative proposes to improve operations of this facility by constructing a new auxiliary lane on SB Rte 133 from the SB I-5 connector to the NB I-405 connector. This proposed auxiliary lane will become the second lane on the NB I-405 connector. This alternative also proposes to extend the number three lane on SB Rte 133 approximately 300 feet south of San Diego Creek to match the existing roadway pavement. CT-EMFAC 2017 model was used to estimate operational GHG emissions. The EMFAC2017/CCT-EMFAC2017 model has been approved by U.S. EPA and meets the FHWA's transportation planning requirements.

CO₂ emissions were calculated for the Base Year (2018), Opening Year (2024), and Design Year (2044). The results of the modeling were used to calculate the CO₂e emissions listed in Table 3.2. This table shows that the Build Alternative would result in a net decrease in CO₂e emissions in the opening year 2024 and in the design year 2044, compared to the base year 2018. The Build Alternative in both opening and design years would result in lower CO₂e emissions in the region when compared to the No Build Alternative, even as VMT increases over time due to anticipated growth (Table 3.2). Improved operations and smoother traffic flow, along with use of cleaner fuels and cleaner vehicle technology in the future, contribute to reducing the GHG emissions in the future years compared to the Existing Year 2018.

Table 3-2 Modeled Annual CO2e Emissions and Vehicle Miles Traveled, by Alternative

Alternative	CO ₂ e Emissions (metric tons/year)	Annual Vehicle Miles Traveled ^a	
Existing/Baseline 2018	2,905	7,647,880	
Open to Traffic 2024			
No Build	2,703	8,487,620	
Build Alternative 1	2,644	8,487,620	
20-Year Horizon/Design-Year 2044			
No Build	2,998	12,179,700	
Build Alternative 1	2,891	12,179,700	

Source: CT-EMFAC (2017), OCTAM 4.0 (2012 base year network and 2040 MPAH network)

CO₂ = carbon dioxide

 CO_2e = carbon dioxide, nitrous oxide, and methane.

^a Annual vehicle miles traveled (VMT) values derived from Daily VMT values multiplied by 347, per ARB methodology (ARB 2008: I-19).

While CT-EMFAC has a rigorous scientific foundation and has been vetted through multiple stakeholder reviews, its GHG emission rates are based on tailpipe emission test data. The CO₂ emissions numbers in Table 3.2 are only useful for a comparison between project alternatives. The numbers are not necessarily an accurate reflection of what the true CO₂ emissions would be, because CO₂ emissions are dependent on other factors that are not part of the model (e.g., the fuel mix [EMFAC model emission rates are only for direct engine-out CO₂ emissions, not full fuel cycle; fuel cycle emission rates can vary dramatically depending on the amount of additives such as ethanol and the source of the fuel components], rate of acceleration, and the aerodynamics and efficiency of the vehicles).

3.4.2 Construction Emissions

Construction GHG emissions would result from material processing, on-site construction equipment, and traffic delays due to construction. These emissions will be produced at different levels throughout the construction phase; their frequency and occurrence can be reduced through innovations in plans and specifications and by implementing better traffic management during construction phases.

In addition, with innovations such as longer pavement lives, improved traffic management plans, and changes in materials, the GHG emissions produced during construction can be offset to some degree by longer intervals between maintenance and rehabilitation activities.

An estimate of the construction emissions was conducted using the Caltrans Construction Emission Tool (CAL-CET2018). The results were used to quantify GHG emissions generated by construction of the Build Alternative and are presented in Table 3.3.

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This analysis does not currently account for the effects of the US National Highway Traffic Safety Administration and Environmental Protection Agency SAFE (Safer Affordable Fuel-Efficient) Vehicles Rule. Part One revoking California's authority to set its own greenhouse gas emissions standards was published on September 27, 2019 and effective November 26, 2019. The SAFE Vehicles Rule Part 2 would amend existing Corporate Average Fuel Economy (CAFE) and tailpipe carbon dioxide emissions standards for passenger cars and light trucks and establish new standards covering model years 2021 through 2026. The proposal would retain the model year 2020 standards for both programs through model year 2026. Although ARB has not yet provided adjustment factors for greenhouse gas emissions to be utilized in light of the SAFE Rule, modeling these estimates with EMFAC2017 or CT-EMFAC2017 remains the most precise means of estimating future greenhouse gas emissions.

Table 3-3 Construction Greenhouse Gas Emissions for the Build Alternative

Project Phases	CO ₂ (tons/phase)	CH ₄ (tons/phase)	N ₂ O (tons/phase)	CO₂e (MT/phase)		
Build Alternative						
Grubbing/Land Clearing	14	0	0.001	13		
Roadway /Excavation	85	0.003	0.002	78		
Structural Excavation	17	0.001	0.000	16		
Base/Subbase/Imported Borrow	204	0.007	0.004	188		
Structural Concrete	142	0.004	0.004	131		
Paving	28	0.001	0.001	26		
Drainage/Environment/Landscaping	38	0.001	0.001	35		
Traffic Signalization/	21	0.001	0.001	19		
Signage/Striping/Painting						
Other operations	1	0.0	0.00	1		
Maximum (pounds per day)	6167	0.21	0.36	6280		
Total (MT/construction project)	550	0.018	0.0293	507		

Source: Calculated by using CAL-CET2018.

 CH_4 = methane CO₂ = carbon dioxide

CO₂e = carbon dioxide equivalent MT/phase = Metric tons/phase CO2e of the CO2, CH4 and N2O was

obtained by multiplying them by their respective global warming potential (GWP) of 1, 25 and 298, respectively.

MT/phase = metric tons per phase N₂O = nitrous oxide

tons/phase = tons per phase

1 t = 2,000 lbs, 1 MT = 2,204.6 lbs

GHG emissions related to the roadway widening would be mainly from CO₂, nitrous oxide (N₂O), and methane (CH₄) (reported together as CO₂e) contained in exhaust from off-road diesel construction equipment/vehicles (e.g., idling and operation of backhoes, cranes, and drilling rigs), from on-road trucks used by vendors (to deliver materials to the site) and on-site workers, and from use of portable equipment (e.g., generators). Construction is expected to start in early 2022 and would continue for 12 to 16 months. Total GHG emissions from construction would be about 5078 MT CO2e for the construction period for the Build Alternative. The construction emission result calculated by using Cal-CET2018 model is included in Appendix G.

Implementation of the following standardized measures will reduce climate change impacts resulting from construction activities.

PF-AQ-1 The construction contractor must comply with Caltrans Standard Specification in Section 14-9, Air Quality, which specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances. Certain common regulations, such as equipment idling restrictions, that reduce construction vehicle emissions also help reduce GHG emissions.

3.4.3 CEQA Conclusion

While the proposed project would result in GHG emissions during construction, is anticipated that the Build Alternative would show decreases in long-term regional GHG emissions compared to the Existing Condition due to improvements in motor vehicle fuel efficiency and engine technologies. The proposed project does not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases. With implementation of construction GHG-reduction measures, the impact would be less than significant.

3.5 GREENHOUSE GAS REDUCTION STRATEGIES

3.5.1 Statewide Efforts

Major sectors of the California economy, including transportation, will need to reduce emissions to meet the 2030 and 2050 GHG emissions targets. Former Governor Edmund G. Brown promoted GHG reduction goals that involved (1) reducing today's petroleum use in cars and trucks by up to 50 percent; (2) increasing from one-third to 50 percent our electricity derived from renewable sources; (3) doubling the energy efficiency savings achieved at existing buildings and making heating fuels cleaner; (4) reducing the release of methane, black carbon, and other short-lived climate pollutants; (5) managing farms and rangelands, forests, and wetlands so they can store carbon; and (6) periodically updating the state's climate adaptation strategy, Safeguarding California.

The transportation sector is integral to the people and economy of California. To achieve GHG emission reduction goals, it is vital that the state build on past successes in reducing criteria and toxic air pollutants from transportation and goods movement. GHG emission reductions will come from cleaner vehicle technologies, lower-carbon fuels, and reduction of vehicle miles traveled (VMT). A key state goal for reducing greenhouse gas emissions is to reduce today's petroleum use in cars and trucks by up to 50 percent by 2030 (State of California 2019).

In addition, SB 1386 (Wolk, 2016) established as state policy the protection and management of natural and working lands and requires state agencies to consider that policy in their own decision making. Trees and vegetation on forests, rangelands, farms, and wetlands remove carbon dioxide from the atmosphere through biological processes and sequester the carbon in above- and below-ground matter.

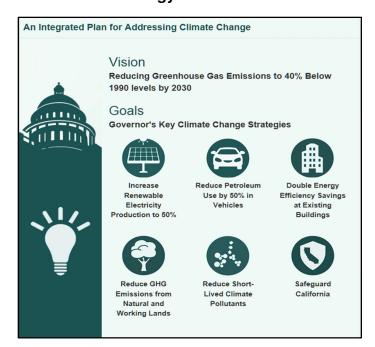


Figure 3-5 California Climate Strategy

3.5.1 Caltrans Activities

Caltrans continues to be involved on the Governor's Climate Action Team as the ARB works to implement EOs S-3-05 and S-01-07 and help achieve the targets set forth in AB 32. EO B-30-15, issued in April 2015, and SB 32 (2016), set an interim target to cut GHG emissions to 40 percent below 1990 levels by 2030. The following major initiatives are underway at Caltrans to help meet these targets.

3.5.1 CALIFORNIA TRANSPORTATION PLAN (CTP 2040)

The California Transportation Plan (CTP) is a statewide, long-range transportation plan to meet our future mobility needs and reduce GHG emissions. In 2016, Caltrans completed the California Transportation Plan 2040, which establishes a new model for developing ground transportation systems, consistent with CO₂ reduction goals. It serves as an umbrella document for all the other statewide transportation planning documents. Over the next 25 years, California will be working to improve transit and reduce long-run repair and maintenance costs of roadways and developing a comprehensive assessment of climate-related transportation demand management and new technologies rather than continuing to expand capacity on existing roadways.

SB 391 (Liu 2009) requires the CTP to meet California's climate change goals under AB 32. Accordingly, the CTP 2040 identifies the statewide transportation system needed to achieve maximum feasible GHG emission reductions while meeting the state's transportation needs. While MPOs have primary responsibility for identifying land use patterns to help reduce GHG emissions, CTP 2040 identifies additional strategies in Pricing, Transportation Alternatives, Mode Shift, and Operational Efficiency.

3.5.2 CALTRANS STRATEGIC MANAGEMENT PLAN

The Strategic Management Plan, released in 2015, creates a performance-based framework to preserve the environment and reduce GHG emissions, among other goals. Specific performance targets in the plan that will help to reduce GHG emissions include:

Increasing percentage of non-auto mode share

Reducing VMT

Reducing Caltrans' internal operational (buildings, facilities, and fuel) GHG emissions

3.5.3 Funding and Technical Assistance Programs

In addition to developing plans and performance targets to reduce GHG emissions, Caltrans also administers several sustainable transportation planning grants. These grants encourage local and regional multimodal transportation, housing, and land use planning that furthers the region's RTP/SCS; contribute to the State's GHG reduction targets and advance transportation-related GHG emission reduction project types/strategies; and support other climate adaptation goals (e.g., Safeguarding California).

3.5.4 CALTRANS POLICY DIRECTIVES AND OTHER INITIATIVES

Caltrans Director's Policy 30 (DP-30) Climate Change (June 22, 2012) is intended to establish a Department policy that will ensure coordinated efforts to incorporate climate change into Departmental decisions and activities. Caltrans Activities to Address Climate Change (April 2013) provides a comprehensive overview of Caltrans' statewide activities to reduce GHG emissions resulting from agency operations.

3.5.4 Project-Level GHG Reduction Strategies

The Build Alternative is designed to improve traffic flow and reduce the congestion. The proposed improvements will improve existing and future regional mobility and traffic flow on the SB Rte 133 and the connectors. Reduction in delays and congestion will help to reduce GHG emissions from idling traffic (Caltrans 2019a).

PF-AQ-1: The construction contractor must comply with Caltrans Standard Specification in Section 14-9, Air Quality, which specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances. Many such required measures help to reduce GHG emissions.

3.6 ADAPTATION

Reducing GHG emissions is only one part of an approach to addressing climate change. Caltrans must plan for the effects of climate change on the state's transportation infrastructure and strengthen or protect the facilities from damage. Climate change is expected to produce increased variability in precipitation, rising temperatures, rising sea levels, variability in storm surges and their intensity, and in the frequency and intensity of wildfires. Flooding and erosion can damage or wash out roads; longer periods of intense heat can buckle pavement and railroad tracks; storm surges combined with a rising sea level can inundate highways. Wildfire can directly burn facilities and indirectly cause damage when rain falls on denuded slopes that

landslide after a fire. Effects will vary by location and may, in the most extreme cases, require that a facility be relocated or redesigned. Accordingly, Caltrans must consider these types of climate stressors in how highways are planned, designed, built, operated, and maintained.

3.6.1 Federal Efforts

Under NEPA assignment, Caltrans is obligated to comply with all applicable federal environmental laws and FHWA NEPA regulations, policies, and guidance.

The U.S. Global Change Research Program (USGCRP) delivers a report to Congress and the president every 4 years, in accordance with the Global Change Research Act of 1990 (15 U.S.C. ch. 56A § 2921 et seq). The Fourth National Climate Assessment, published in 2018, presents the foundational science and the "human welfare, societal, and environmental elements of climate change and variability for 10 regions and 18 national topics, with particular attention paid to observed and projected risks, impacts, consideration of risk reduction, and implications under different mitigation pathways." Chapter 12, "Transportation," presents a key discussion of vulnerability assessments. It notes that "asset owners and operators have increasingly conducted more focused studies of particular assets that consider multiple climate hazards and scenarios in the context of asset-specific information, such as design lifetime" (USGCRP 2018).

The U.S. DOT Policy Statement on Climate Adaptation in June 2011 committed the federal Department of Transportation to "integrate consideration of climate change impacts and adaptation into the planning, operations, policies, and programs of DOT in order to ensure that taxpayer resources are invested wisely, and that transportation infrastructure, services and operations remain effective in current and future climate conditions" (U.S. DOT 2011).

FHWA order 5520 (Transportation System Preparedness and Resilience to Climate Change and Extreme Weather Events, December 15, 2014) established FHWA policy to strive to identify the risks of climate change and extreme weather events to current and planned transportation systems. FHWA has developed guidance and tools for transportation planning that foster resilience to climate effects and sustainability at the federal, state, and local levels (FHWA 2019).

3.6.2 State Efforts

Climate change adaptation for transportation infrastructure involves long-term planning and risk management to address vulnerabilities in the transportation system. California's Fourth Climate Change Assessment (2018) is the state's effort to "translate the state of climate science into useful information for action" in a variety of sectors at both statewide and local scales. It adopts the following key terms used widely in climate change analysis and policy documents:

Adaptation to climate change refers to adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities.

Adaptive capacity is the "combination of the strengths, attributes, and resources available to an individual, community, society, or organization that can be used to prepare for and

undertake actions to reduce adverse impacts, moderate harm, or exploit beneficial opportunities."

Exposure is the presence of people, infrastructure, natural systems, and economic, cultural, and social resources in areas that are subject to harm.

Resilience is the "capacity of any entity – an individual, a community, an organization, or a natural system – to prepare for disruptions, to recover from shocks and stresses, and to adapt and grow from a disruptive experience". Adaptation actions contribute to increasing resilience, which is a desired outcome or state of being.

Sensitivity is the level to which a species, natural system, or community, government, etc., would be affected by changing climate conditions.

Vulnerability is the "susceptibility to harm from exposure to stresses associated with environmental and social change and from the absence of capacity to adapt." Vulnerability can increase because of physical (built and environmental), social, political, and/or economic factor(s). These factors include, but are not limited to: ethnicity, class, sexual orientation and identification, national origin, and income inequality.2 Vulnerability is often defined as the combination of sensitivity and adaptive capacity as affected by the level of exposure to changing climate.

Several key state policies have guided climate change adaptation efforts to date. Recent state publications produced in response to these policies draw on these definitions.

EO S-13-08, issued by then-governor Arnold Schwarzenegger in November 2008, focused on sea-level rise and resulted in the *California Climate Adaptation Strategy* (2009), updated in 2014 as *Safeguarding California: Reducing Climate Risk* (Safeguarding California Plan). The Safeguarding California Plan offers policy principles and recommendations and continues to be revised and augmented with sector-specific adaptation strategies, ongoing actions, and next steps for agencies.

EO S-13-08 also led to the publication of a series of sea-level rise assessment reports and associated guidance and policies. These reports formed the foundation of an interim *State of California Sea-Level Rise Interim Guidance Document* (SLR Guidance) in 2010, with instructions for how state agencies could incorporate "sea-level rise (SLR) projections into planning and decision making for projects in California" in a consistent way across agencies. The guidance was revised and augmented in 2013. *Rising Seas in California – An Update on Sea-Level Rise Science* was published in 2017 and its updated projections of sea-level rise and new understanding of processes and potential impacts in California were incorporated into the *State of California Sea-Level Rise Guidance Update* in 2018.

EO B-30-15, signed in April 2015, requires state agencies to factor climate change into all planning and investment decisions. This EO recognizes that effects of climate change other than sea-level rise also threaten California's infrastructure. At the direction of EO B-30-15, the Office of Planning and Research published *Planning and Investing for a Resilient California*:

A Guidebook for State Agencies in 2017, to encourage a uniform and systematic approach. Representatives of Caltrans participated in the multi-agency, multidisciplinary technical advisory group that developed this guidance on how to integrate climate change into planning and investment.

AB 2800 (Quirk 2016) created the multidisciplinary Climate-Safe Infrastructure Working Group, which in 2018 released its report, *Paying it Forward: The Path Toward Climate-Safe Infrastructure in California*. The report provides guidance to agencies on how to address the challenges of assessing risk in the face of inherent uncertainties still posed by the best available science on climate change. It also examines how state agencies can use infrastructure planning, design, and implementation processes to address the observed and anticipated climate change impacts.

3.6.3 Caltrans Adaptation Efforts

3.6.3.1 CALTRANS VULNERABILITY ASSESSMENTS

Caltrans is conducting climate change vulnerability assessments to identify segments of the State Highway System vulnerable to climate change effects including precipitation, temperature, wildfire, storm surge, and sea-level rise. The approach to the vulnerability assessments was tailored to the practices of a transportation agency, and involves the following concepts and actions:

Exposure – Identify Caltrans assets exposed to damage or reduced service life from expected future conditions.

Consequence – Determine what might occur to system assets in terms of loss of use or costs of repair.

Prioritization – Develop a method for making capital programming decisions to address identified risks, including considerations of system use and/or timing of expected exposure.

The climate change data in the assessments were developed in coordination with climate change scientists and experts at federal, state, and regional organizations at the forefront of climate science. The findings of the vulnerability assessments will guide analysis of at-risk assets and development of adaptation plans to reduce the likelihood of damage to the State Highway System, allowing Caltrans to both reduce the costs of storm damage and to provide and maintain transportation that meets the needs of all Californians.

3.6.3.2 Project Adaptation Analysis

SEA-LEVEL RISE

The proposed project is outside the coastal zone and not in an area subject to sea-level rise. Accordingly, direct impacts to transportation facilities due to projected sea-level rise are not expected.

FLOODPLAINS

Transportation assets in California are affected by precipitation in a variety of ways—from inundation/flooding, to landslides, washouts, or structural damage from heavy

rain events. Climate change can cause large fluctuations in precipitation, with dry years becoming dryer and wet years wetter. Study was conducted to determine how a 100-year storm precipitation event may change over time for the purposes of analyzing vulnerabilities of the Caltrans State Highway System. The study forecast a change of less than 5 percent in 100-year storm precipitation depth in the project area in through 2085 based on the RCP 8.5 emissions scenario (Caltrans 2018).

WILDFIRE

Dryer atmosphere and wind have caused wildfires in the state. In areas affected by wildfires, falling rocks, mud, and trees damaged by fire can wash down steep banks during periods of high intensity rain. This debris can cause road blocks and require detours. Increasing temperatures, changing precipitation patterns, and resulting changes to land cover, are expected to affect wildfire frequency and intensity. Human infrastructure, including the presence of electrical utility infrastructure, or other sources of fire potential (mechanical, open fire, accidental or intentional) may also influence the occurrence of wildfires. Wildfire is a direct concern for driver safety, system operations, and Caltrans infrastructure, among other issues. In the Orange County, 74.2 miles of State Highway would be exposed to wildfire in the year 2025, 73.7 miles in the year 2055, and 75.2 miles in the year 2085 at the RCP 8.5 emission scenario. However, analysis and mapping in the draft District 12 climate vulnerability assessment shows no exposed roadway or level of concern for wildfire for the project area in the years through 2085 under the RCP 8.5 emission scenario (Caltrans 2018).

3.7 Chapter 3 References

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Chapter 4 – Comments and Coordination

The outreach process included proactive and continuous coordination. This process also includes identifying and developing appropriate mitigation measures for the project. Agency consultation for this project has been accomplished through a variety of formal and informal methods, including Project Development Team (PDT) meetings and interagency coordination meetings. This chapter summarizes the results of Caltrans efforts to fully identify, address, and resolve project related issues through early and continuing coordination.

Ongoing coordination continues with the City of Irvine Department of Community Development.

The Native American Heritage Commission (NAHC) was contacted on July 1, 2019, with a follow-up on July 18, 2019 to conduct a Sacred Lands File (SLF) search for the project and to request a California Environmental Quality Act (CEQA) Tribal Consultation List under AB 52. The NAHC responded on July 19, 2019, stating that the SLF was conducted with negative results for the presence of Native American cultural resources in the project APE. However, the NAHC recommended that 17 Native American individuals representing the Cahuilla, Gabrieleno, Juaneño, Cupeño, and Luiseño groups be contacted for information regarding cultural resources that could be affected by the project. A total of 17 Native American individuals or groups were contacted between August 1, 2019 and September 4th, 2019 for cultural resource information regarding this project. Responses were received from the Gabrieleno Band of Mission Indians-Kizh Nation, the Rincon Band of Luiseno Indians, the Agua Caliente Band of Cahuilla Indians, Pala Band of Mission Indians, and the Juaneño, Band of Mission Indians Acjachemen Nation. Refer to Section 2.18.1 (CEQA Significance Determinations for Tribal Cultural Resources) for additional information regarding Native American consultation.

The Orange County Historical Society was contacted on September 11th, 2019, for information regarding historical resources in the project area. No response was received.

The Draft IS was made available to the public and circulated to regional and local agencies to provide opportunity for a hearing and their comments during the period of January 6th, 2020 through February 7th, 2020 (see attached Public Notice on page 4-3). The document was available at the OC Library Heritage Park Regional Branch at 14361 Yale, Irvine, CA 92604 and at the Caltrans District 12 office. Caltrans received comments from the South Coast Air Quality Management District, the California Fish and Wildlife, the Santa Ana Regional Water Quality Control Board, and the City of Irvine. Caltrans provided responses to these agencies prior to taking action on the project.

Caltrans coordinated with the County of Orange Flood Control District to obtain historic records of activities conducted within San Diego Creek in January 2019.

Caltrans obtained historic records of Steelhead within San Diego Creek from Jess Adams of the National Marine Fisheries Service via email on May 21, 2019 (see Appendix I).

Caltrans conducted sites visits with Simona Altman and South Coast Regionals anadromous fisheries biologists, California Department of Fish and Wildlife representatives were conducted between September 4th, 2019 and October 23rd, 2019.

GENERAL INQUIRY FROM JOHN BOSLET REPRESENTING IRVINE COMPANY:

On January 7th,2020, Mr. John Boslet representing the Irvine Company asked for an electronic copy of the MND and Initial Study. Caltrans provided it in an email the same day. On January 9th, 2020 Caltrans responded via email a response to a general question about Temporary Construction Easement location on AP 585-051-04 and the work being proposed for that TCE. The response indicated that Temporary Construction Easement (TCE) is needed for Caltrans contractor to access to San Diego Creek. Work to be completed in San Diego Creek bed consists: Rock Slope Protection (RSP) will be replaced 6 feet below the Top of Pile Cap between the Piers/Abutment footings and flush with the footings and adjacent ground. The RSP used should be ½ ton (24 inches in diameter) installed in a pre-excavated 6-foot hole and extend 5 feet from each side of the pier wall and extend 40 feet upstream from the face of the right bridge and 10 feet from the downstream face of the New Widening of the Off-Ramp Bridge (55-0290F). Also, slurry will be placed underneath the existing piers/abutments pile caps to fill the voids due to erosion prior to the excavation for RSP placement. The approximate area of the existing piers where slurry will be place is 0.15 acres (6,540 SQFT). This access location is for the work being done on upstream (see above items of work) of the San Diego Creek. Due to riprap are in the creek bed and the narrow space between bridge bench, we won't have able to use other access. There is other access location (TCE) on SB 133 for the work being done on down stream of San Diego Creek.

Since the completion of the public circulation review period, the project scope has been reduced and the new scope of work does not include the requirement of a TCE at AP 585-051-04.



Public Notice

State Route 133 Operational Improvements Project Notice of Intent to Adopt a Mitigated Negative Declaration Notice of Availability of an Initial Study and Section 4(f) De Minimis Finding



WHAT'S BEING PLANNED?

The California Department of Transportation (Caltrans) proposes to construct new auxiliary lane on Southbound SR-133 between Route 133/405 Connector and Irvine Center Drive in the City of Irvine. The purpose of the project is to improve traffic flow, provide additional vehicular storage, and shorten the queue length of vehicles. Currently in the environmental document and preliminary engineering process, there is One Build alternative that is being considered as well as a No-Build Alternative.

WHY THIS AD?

Caltrans has studied the effects this project may have on the environment. The studies show it will not significantly affect the quality of the environment. The report that explains why is called an Initial Study. This notice is to tell you of the preparation of the Proposed Mitigated Negative Declaration (MND) and Initial Study plus a Section 4(f) De Minimis Finding and of its availability for your review. There will be an option for the opportunity for a public hearing (open house format) to talk about certain design features of the project with Caltrans' staff before the final design is selected.

WHAT'S AVAILABLE?

The Proposed MND and IS and Section 4(f) De Minimis are available for review and copying for a fee at the Caltrans District 12 Office, 1750 East 4th Street, Suite 100, Santa Ana, CA 92705, on weekdays from 8:00 a.m. to 5:00 p.m. The Proposed MND and IS and Section 4(f) De Minimis Finding are also available for review at the following locations during normal business hours:

OC Library-Heritage Park Regional Branch, 14361 Yale, Irvine, CA 92604

In addition, project information is available online at: https://www.dot.ca.gov/caltrans-near-me/district-12/district-12-programs/district-12-environmental/sr-133-operational-improvements

WHERE YOU COME IN?

Do you have any comments about processing the project with a Proposed MND and IS? Do you disagree with the findings of our study as set forth in the Proposed MND or Section 4(f) De Minimis Finding? Do you disagree with the findings of our study as set forth in the IS? Would you care to make any other comments on the project? Would you like a public hearing?

Public Comment Period: January 7th, 2020 to February 6th, 2020

Please submit your comments in writing no later than 5:00 pm, February 6th, 2020 to Bahar Heydari
Associate Environmental Planner, Caltrans District 12, Division of Environmental Analysis, 1750 East 4th Street,
Suite 100, Santa Ana, CA 92705 or via e-mail to D12.SR133OperationsProject@dot.ca.gov. The date we will begin
accepting comments **January 7th**, **2020**. If there are no major comments, Caltrans will proceed with the
project's design.

Individuals who require special accommodation (American Sign Language interpreter, accessible seating, documentation in alternate formats, etc.) are requested to contact the District 12 Public Affairs Office at (657) 328-6000 at least 21 days prior to the scheduled hearing date. TDD users may contact the California Relay Service TDD line at 1-800-735-2929 or Voice Line at 1-800-735-2922.

CONTACT?

Should a public hearing be requested: Individuals who require special accommodation (American Sign Language interpreter, accessible seating, documentation in alternate formats, etc.) are requested to contact the District 12 public Affairs Office at (657) 328-6000 at least 21 days prior to the scheduled hearing date. TDD users may contact the California Relay Service TDD line at 1 (800) 735-2929 or Voice Line at 1 (800) 735-2922. For more information about this study or any other transportation matter, call Justin Lesniewski at District 12's Public Information Office at (657) 328-6594 or e-mail at Justin Lesniewski@dot.ca.gov

Chapter 5 – List of Preparers

This document has been prepared by the California Department of Transportation as the lead agency under CEQA and NEPA. The following individuals were involved in the preparation of this Initial Study:

Caltrans

Bahar Heydari, Associate Environmental Planner. Bachelor of Science in Geography with Emphasis on Environmental Analysis. California State Polytechnic University Pomona. 12 years of experience. Contribution: Document Preparer

Alben Phung, Associate Environmental Planner. Masters of Urban & Regional Planning, California State Polytechnic University Pomona. 2 years of experience. Contribution: Section 4f De Minimis Analysis and document reviewer

Bala K Balakrishnaiyer, Transportation Engineer-Civil, Ph.D in Geotechnical Engineering, University of Tokyo, Japan, 18 years of experience in Geotechnical Engineering, Contribution: Geology and Soils Section CEQA checklist and Structure Preliminary Geotechnical Report (4)

Rabindra Bade Environmental Engineer. Ph.D. in Environmental Engineering, Kumoh National Institute of Technology, South Korea. 17 years of experience in research, design, consulting, academics in the field of Environmental Engineering and Civil Engineering. Contribution: Environmental Engineer for the preparation of Air Quality Report, Revised Air Quality Report Climate Change Section.

Baker, Charles, Senior Environmental Planner. B.A. in Anthropology, California State University, Fullerton, CA. M.A. in History, California State University, Fullerton, CA. 19 years of experience in environmental planning. Contribution: Senior review of the IS with Proposed MND

Cheryl Sinopoli Associate Environmental Planner (Archaeologist). B.A. in Anthropology, California State University, Bakersfield, CA. 18 years of experience in environmental planning. Contribution: Review of the Cultural and Paleontological technical studies and environmental document.

Kedest Ketsela Associate Environmental Planner (Biologist). B.S. in Natural Science, California State University, Los Angeles, CA. 18 years of experience. Contribution: , Natural Environment Study (MI) and Jurisdictional Delineation

Gabriela Duran, Associate Environmental Planner. Bachelors University of Riverside California. 12 years of experience. <u>Contribution</u>: Peer Reviewer and Technical Editor.

Grace Pina-Garrett, Senior Transportation Engineer – NPDES Unit. B.S. Civil Engineering, California State University, Long Beach. 21 years' experience. <u>Contribution</u>: Senior review of water technical study and related section in the environmental document.

Hector Salas, Associate Environmental Planner. B.A. Environmental Analysis and Design, University of California, Irvine. 17 years' experience. <u>Contribution</u>: Preparation and review of water technical study (Water Quality Analysis Report) and water quality section.

Neal Alie Hydrology/Hydraulics Engineer,. <u>Contribution:</u> Preparation of the Preliminary Hydraulic Evaluation

.

Reza Aurasteh, Senior Environmental Engineer. P.E., Ph.D. Engineering, Utah State University. 28 years' experience. <u>Contribution</u>: Senior review of Air Quality Technical Studies and Noise Technical Studies.

Ricardo Caraig, Transportation Engineer, B.S. in Civil Engineering, California State University, Fullerton. 28 years of experience. <u>Contribution:</u> Preparation of the Noise section and Noise Study Analysis and Noise Abatement Decision Report

Smita Deshpande, Senior Environmental Planner, M.S. Regional Planning, Indiana University of Pennsylvania, Indiana. 20 years of experience. <u>Contribution</u>: Senior review of the environmental document

Landon Mares Landscape Associate, B.S. in Landscape Architecture, California Polytechnic University, Pomona. 20 years of experience. <u>Contribution</u>: Preparation of the Aesthetics section and the Scenic Resource Evaluation and Visual Impact Assessment Questionnaire

Chris Flynn, Deputy District Director of Environmental Analysis, M.S. Environmental Science, San Jose State University. 30 years' experience. <u>Contribution</u>: Supervisory review of the environmental document.

Chiou, Wayne, Transportation/Environmental Engineer. P.E. M.S. in Civil and Environmental Engineering, Utah State University, Logan, UT. 28 years of experience in consulting engineering and environmental engineering. Contribution: ISA.CHECKLIST

Consultants

Sarah Reiboldt PH.D Associate/Senior Paleontologist, LSA Associates, Inc. Contribution: Paleontological Identification Report/Paleontological Evaluation Report (PIR/PER) and Supplemental PIR/PER Memorandum

Kerrie Collison, Senior Cultural Resources Manager. LSA Associates. Contribution: Historic Property Survey Report and Archaeological Survey Report (ASR)

Chapter 6 – Distribution List

The Initial Study and the Notice of Availability was distributed to local, and regional agencies and utility providers affected by the proposed project.

FEDERAL AGENCIES

United States Army Corp of Engineers

Los Angeles District Los Angeles Regulatory Office 915 Wilshire Blvd, Suite 1101 Los Angeles CA, 90017

Attn: Tim Jackson

U.S. Fish and Wildlife Service

6010 Hidden Valley Road, Ste. 101 Carlsbad, CA. 92008 Attn: Sally Brown

STATE AGENCIES

State Clearinghouse

Office of Planning and Research 1400 Tenth Street Sacramento, CA 95814 Attn: Scott Morgan

California Department of Fish and Wildlife

3883 Ruffin Road San Diego, CA. 92123 Attn: Simona Altman

California Regional Water Quality Control Board

3737 Main Street, Ste. 500 Riverside, CA. 92501-3348

CA. Office of Historic Preservation

1725 23rd Street, Ste. 100 Sacramento, CA 95816

LOCAL/REGIONAL AGENCIES

City of Irvine

Department of Transportation 1 Civic Center Plaza P.O. Box 19575 Irvine, CA 92623-9575 Attn: Jaimee Bourgeois

South Coast Air Quality Management District

21865 Copley Drive Diamond Bar, CA 91765

Attn: Linjin Sun

Southern California Association of Governments

Attn: Hasan Ikhrata, Executive Director 818 West 7th Street, 12th Floor Los Angeles, CA 90017

Orange County

Attn: Planning Department P.O. Box 4048 Santa Ana, CA 92702-4048

Orange County Flood Control District 601 North Ross Street Santa Ana.CA 92701

LIBRARIES

OC Library-Heritage Park Regional Branch 14361 Yale Irvine, CA. 92604

ELECTED OFFICIALS

Orange County Supervisor (District 3)

Donald Wagner
Office of Third District Supervisor
Orange County Board of Supervisors
10 Civic Center Plaza
Santa Ana, CA 92701

Assembly (74th District) Cottie Petrie-Norris

State Capitol, Room 4144 Sacramento, CA 95814

State Senate (Senate District 37)

State Capitol, Room 2048 Sacramento, CA 95814

NATIVE AMERICAN REPRESENTATIVES

Native American Heritage Commission

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Agua Caliente Band of Cahuilla

Indians

Jeff Grubbe, Chairperson 5401 Dinah Shore Drive Palm Springs, CA, 92264 Phone: (760) 699 - 6800 Fax: (760) 699-6919 Cahuilla

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jontiveros@soboba-nsn.gov

Cahuilla Luiseno

Appendix A - Section 4(f) and Concurrence



Public Works and Transportation

cityofirvine.org

1 Civic Center Plaza, Irvine, California 92623-9575

949-724-7365

March 9, 2020

Smita Deshpande Senior Environmental Planner Division of Environmental Analysis Department of Transportation, District 12 1750 East 4th Street, Suite 100 Santa Ana, CA 92705

Re: State Route 133 Operational Improvements

City of Irvine Concurrence with Section 4(f) De Minimis Findings

Dear Ms. Deshpande:

The City of Irvine appreciates the opportunity to participate in the Section 4(f) concurrence process. The City understands that the California Department of Transportation (Caltrans) District 12 is proposing State Route 133 (SR-133) Operational Improvements (Project), in the City of Irvine.

Caltrans has determined that a de minimis finding is appropriate and would be maintained with regards to the potential impacts to the San Diego Creek Class I Trail/bikeway. The San Diego Creek Trail is as an important bikeway providing important connections within the City of Irvine and serving regional needs. These activities, features, and attributes qualify this resource to be eligible for protection under Section 4(f).

While the City prefers no trail closures, the operational and safety benefits of the Project are recognized. Because the completion of the Project requires a temporary trail closure, the City of Irvine respectfully requests that every effort be made to minimize the length of time of the closure, as the bikeways within Irvine are an important component of the City's transportation network and the County's Regional Trail System.

My signature below represents the City's concurrence of the de minimis finding by Caltrans, that the Project will not adversely affect the activities, features, and attributes that qualify the San Diego Creek Trail for protection under Section 4(f). The use of the Section 4(f) resource during construction of the Project, together with the 4(f) impact avoidance, minimization, and/or mitigation measures incorporated into the safety project, does not adversely affect the activities, features, and attributes of the trail. We also understand that the public was afforded the opportunity to review and comment on the effects of the project on the protected activities, features, and attributes of the Section 4(f) resources.

Ms. Smita Deshpande March 9, 2020 Page 2

The signature below is conditioned upon the Section 4(f) impacts and avoidance, minimization, and/or mitigation measures as previously referenced. We request communication on the project status as it continues to develop and appreciate the opportunity to participate in the process.

Mark A. Steuer

Director of Public Works and Transportation

SECTION 4(f) DE MINIMIS DETERMINATION AND RESOURCES EVALUATED RELATIVE TO THE REQUIREMENTS OF SECTION 4(f)

STATE ROUTE 133 Operational Improvement Project - EA 0N890

This Section 4(f) analysis includes de minimis determinations for an off-street Class I bikeway/trail in the City of Irvine. Following the de minimis determination, this Section 4(f) analysis also includes information regarding resources evaluated relative to the requirements of Section 4(f), but that do not trigger protection under Section 4(f).

1.0 General Background

The proposed project will receive federal funding; therefore, it is subject to Section 4(f) analysis. The area within 0.5 mile is the maximum disturbance limits (project footprint) for the Build Alternative and was used to define the study area for existing publicly owned recreation and park properties, including local, regional, state and federal properties; existing play and sports fields of public schools with public access, publicly owned wildlife and water fowl refuges and conservation areas, and existing off-street public bicycle, pedestrian, and equestrian trails. The study area was defined to identify an area large enough to assess the potential for the project to result in proximity impacts to properties protected under Section 4(f).

Excluding the off-street Class I bikeway/trail, within the 0.5 mile study area there are a total of 2 trails in the vicinity.

PROJECT DESCRIPTION AND ALTERNATIVES

The California Department of Transportation (Caltrans) District 12 proposes an operational improvement project on State Route 133 (SR-133). On SR-133, the proposed project is between the southbound (SB) SR-133 / SB Interstate 5 (I-5) connector and the SB SR-133 / northbound (NB) Interstate 405 (I-405) connector. The proposed project is located within the City of Irvine; in south Orange County.

Caltrans is the Lead Agency under the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). An Initial Study with Proposed MND is being prepared pursuant to CEQA and a Categorical Exclusion is being prepared pursuant to the National Environmental Policy Act (NEPA). This project has two alternatives, a Build alternative and a No Build Alternative.

Purpose:

The purpose of this project is to enhance traffic operations and flow and shorten queue length of vehicles on SR-133 between SB I-5 and NB I-405 connectors by providing a new auxiliary lane and extending the number 3 lane on SB Rte-133.

Need:

This segment of SB Rte-133 is operating under severe congestion during morning peak hours. The number three lane of SB Rte-133 experiences long traffic queues

which back up all the way to the SB I-5 connector and the SB Rte-133 mainline (north of the SB I-5 connector), and restrict traffic flow.

Build Alternative: This alternative proposes to improve operations and safety of this facility by constructing a new auxiliary lane on SB Rte-133 from the SB I-5 connector to the NB I-405 connector. This proposed auxiliary lane will become the second lane on the NB I-405 connector. This alternative also proposes to extend the number three lane on SB Rte-133 approximately 300 feet south of San Diego Creek to match the existing roadway pavement. Project work activities improvements include the following:

- 1 Construct additional asphalt concrete pavement to provide a twelve-foot auxiliary lane from the SB I-5 connector to NB I-405 connector and twelve-foot lane from the gore area to 300 feet south of San Diego Creek.
- 2 Construct additional asphalt concrete pavement to provide a second twelve-foot lane on the SB Rte-133/NB I-405 connector.
- 3 Realign the Barranca Parkway (Pkwy) loop on-ramp and reconstruct the ramp entrance. Convert the existing HOV lane to GP lane, reinstall the existing ramp meter system, reconstruct loop detectors, and modify the MGS along the on-ramp left shoulder if needed.
- 4 Reconstruct maintenance vehicle pullouts.
- 5 Construct tie back walls at Barranca Pkwy OC and Alton Pkwy OC.
- 6 Construct approximately 472 feet long retaining wall (retaining wall No. 55) from the end of San Diego Creek off-ramp bridge (55-0290F) towards North.
- 7 Construct approximately 210 feet long retaining wall (retaining wall No. 61) from the beginning of San Diego Creek off-ramp bridge (55-0290F) towards South.
- 8 Construct approximately 512 feet long retaining wall (retaining wall No. 46) along the off-ramp from SB SR-133 to I-405. (The limits will be finalized once district provided the necessary information to Structures.).
- 9 Replace approximately 520 ft of the existing Reinforced Concrete Channel (RCC) with a Reinforced Concrete Box (RCB) between Barranca Pkwy and Alton Pkwy.
- 10 Relocate and modify two existing overhead signs to accommodate pavement widening.
- 11 Remove and replace light poles along shoulder of SB Rte-133 and Barranca Pkwy on-ramp.
- 12 Remove and replace signing as needed.
- 13 Construct approximately 500 feet long of MGS between retaining wall No. 62 and the tie back wall at Alton Pkwy OC.
- 14 Remove existing MBGR and end treatments at the gore area of SB Rte-133 and SB Rte-133/NB I-405 connector.
- 15 Construct approximately 1200 square feet of additional bridge pavement, construct bridge rail with 20:1 taper and install alternative

- safety device to shield the end of bridge railings beyond the gore area of SB Rte-133 and SB Rte-133/NB I-405 connectors.
- 16 Relocate 3 drainage inlets along right shoulder of SB Rte-133 and 2 drainage inlets along right shoulder of SB Rte-133/NB I-405 connector.
- 17 Refresh all striping and markers.
- 18 San Diego Creek Left Bridge (55-0290L) will be widened to cover the gore area. Bridge Super-Structure will be constructed to accommodate the new lane configuration.
- 19 San Diego Creek off-ramp bridge (55-0290F) will be widened by 14.5 feet. New Sub-Structure and Super-Structure will be constructed to accommodate the new lane configuration.
- 20 Approach and departure slabs, paving notch and joint seals will be added at the left bridge (55-0290L) and the off-ramp bridge (55-0290F).
- 21 Existing Barriers, Type 25 at the Left Bridge (55-0290L) and the Off-Ramp Bridge (55-0290F) will be replaced with Concrete Barrier Type 836.
- 22 Rock Slope Protection (RSP) will be replaced along Piers and Abutments of San Diego Creek Off-Ramp Bridge (55-0290F) Widening for a length of approximately 15 feet and extend 10 feet beyond the bridge widening on downstream side. The RSP will be placed 6 feet below the Top of Pile Cap between the Piers/Abutment footings and flush with the footings and adjacent ground. The RSP used should be ½ ton (24 inches in diameter) installed in a pre-excavated 6-foot hole.
- 23 TCEs are needed for constructing RCB, and bridge widening.
- 24 Clearing and grubbing
- 25 Highway planting
- 26 Replace damaged landscape irrigation in kind where needed between Irvine Boulevard Over-Crossing to Barranca Parkway on-ramp.

The project scope will include the following nonstandard design feature, a 500-foot long 2:1 side slope on SB Rte-133 between Alton and Barranca Pkwy, 2:1 slope in front of retaining wall No. 46, 55, and 62. Per the HDM 304.1, new and modified embankment slopes should be 4:1 or flatter.

The duration of the project will be approximately 2 years. Bicycle and pedestrian detours will be provided. In addition, the Caltrans Standard Specifications in the Transportation Management Plan (TMP) will require the project to provide information to the public for pedestrian and bicycle detours.

B. No-Build Alternative

The No Build alternative retains the existing roadway condition. This Alternative will not address congestion during morning peak hours within the project limits. This is not the preferred alternative.

2.0 De Minimis Determinations

This section of the document discusses *de minimis* impact determinations under Section 4(f). Section 6009(a) of SAFETEA-LU amended Section 4(f) legislation at 23 United States Code (USC) 138 and 49 USC 303 to simplify the processing and approval of projects that have only *de minimis* impacts on lands protected by Section 4(f). This amendment provides that once the U.S. Department of Transportation (USDOT) determines that a transportation use of Section 4(f) property, after consideration of any impact avoidance, minimization, and mitigation or enhancement measures, results in a *de minimis* impact on that property, an analysis of avoidance alternatives is not required and the Section 4(f) evaluation process is complete. FHWA's final rule on Section 4(f) *de minimis* findings is codified in 23 Code of Federal Regulations (CFR) 774.3 and CFR 774.17.

Responsibility for compliance with Section 4(f) has been assigned to the Department pursuant to 23 USC 326 and 327, including *de minimis* impact determinations, as well as coordination with those agencies that have jurisdiction over a Section 4(f) resource that may be affected by a project action.

There is 1 recreational facility, San Diego Creek Class I Bikeway/trail owned and operated by the City of Irvine that have been determined to trigger the requirements for protection under Section 4(f).

San Diego Creek Class I Bikeway/Trail

Description of Activities, Features, and Attributes

The San Diego Creek Class I Bikeway/Trail, within the City of Irvine, begins at the intersection of Dana and Antivo, continues northwest to reach the San Diego Creek Channel. The bikeway/trail follows the channel southward to the end of the facility limits passing under SR-73. This bikeway/trail is predominantly asphalt with shoulder striping along most segments. The San Diego Creek Class 1 Bikeway/Trail as described from the City of Irvine Bicycle Transportation Plan (2011):

"This Class I bikeway also forms a segment of a regional trail that connects the City of Orange with the Upper Newport Bay, and follows the east side of the San Diego Creek channel as it extends from its intersection with Peters Canyon Wash, near Barranca Parkway, to Newport Beach in the south. Near Barranca Parkway, the San Diego Creek Trail also travels east through central Irvine. The bikeway follows both sides of the channel between Sand Canyon Avenue and SR-133 toll road and terminates before intersecting with the I-405 Freeway in the Irvine Spectrum."

The San Diego Creek Class I Bikeway/Trail is part of a larger system consisting of on-/off-street bikeway/trails as well as Class II on-street striped bike routes (see Figure 1). The citywide bike system consists of 61.8 miles of off-street bikeway trails and 301 lane miles of on-street bikeways. From the San Diego Creek Class I Bikeway/Trail, the public can directly connect to the following Public Paved Off-Street Trails (Figure 1) bikeway trails:

- Barranca Trail
- Sand Canyon Trail
- Jeffrey Open Space Trail

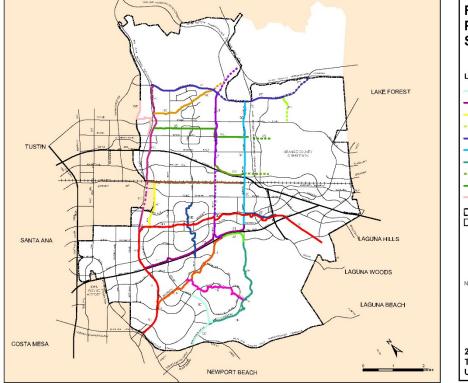
- Woodbridge Trail
- Peters Canyon Trail
- Freeway Trail
- University Trail

The San Diego Creek Class I Bikeway/Trail connects residents from the central portion of the City to the western and eastern portions, commercial centers, and local and regional open space and park areas. In addition, the San Diego Creek Class I Bikeway/Trail serves as a regional bikeway connection to Newport Beach (to the south) and to the cities of Tustin and Orange (to the north).

Amenities of the bike facility are limited. Lighting is limited to portions of the facility that are adjacent to city streets. Landscaping is restricted on this facility because it is a County Flood Control facility. Benches and drinking water facilities are found only south of Barranca Street

Figure 1 – Named Public Paved Off-Street Trails. Source: City of Irvine, Bicycle
Transportation Plan 2011 (accessed June 12, 2019)]

Figure 4-1, Named
Public Paved OffStreet Trails





Proposed "Use"

Because the proposed improvements of the Build Alternative at the SB SR-133 / NB I-405 connector bridge cross over the San Diego Creek Class I Bikeway/Trail facility, the Build Alternative will temporarily impact use to the San Diego Creek Class I Bikeway/Trail at this location. This project requires 29,965 square feet of Temporary Construction Easement (TCE). Construction activities are proposed to take place in

the San Diego Creek bed and channel, in addition to the construction of a concrete box channel between Barranca Pkwy and Alton Pkwy. Due to the construction in the manner proposed the project requires Temporary Construction Easements from two (2) assessor's parcels. The exact requirements are as noted in the Assessor's Parcel Number table below. Due to these proposed improvements on the SB SR-133/NB I-405 connector, the trail will be temporarily closed at that location for construction activities within the San Diego Creek bed and channel (see Figure 2). No permanent right of way acquisition or easements will be required. However, Temporary Construction Easements will be necessary. Table 1 (below) shows the right of way requirements and Figure 2 shows the location of the impacted Assessors' Parcel Numbers.

<u>Table 1 – Right-of-Way Requirements</u>

Location	Ownership	Assessor's Parcel Number	TCE	
SB SR-133 / NB I-405 Connector	City of Irvine	466-102-02	21,520 sqft	
Does not impact the Class I Bikeway	Toyota Motor Sales USA	466-101-13	8,445 sqft	
		TOTAL	29,965 sqft	

There will be no changes made to the bike facility, but it will be temporarily impacted due to the construction activity.

There are numerous access points to the bikeway/trail, but only the location of construction activity will require temporary closure. However, detours will be required and provided. The remainder of the bikeway/trail and associated bike facility network system within the City of Irvine will remain open and undisturbed.

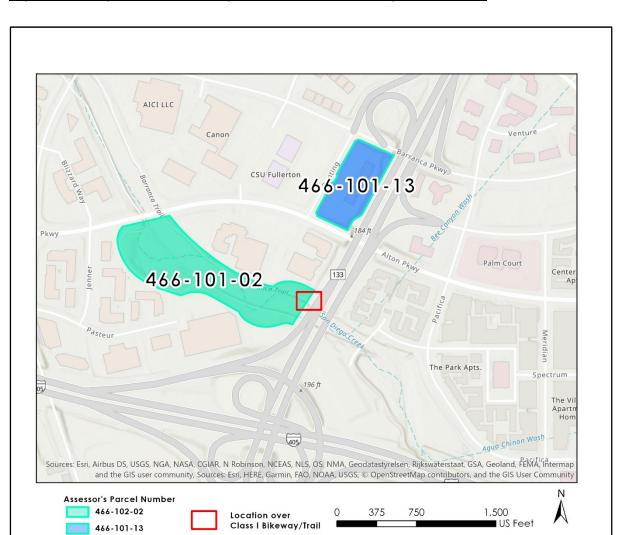


Figure 2 - Project easement requirements and San Diego Creek Trail

Table 2 - Section 4(f), San Diego Creek Class I Bikeway/Trail

Property Name	Description	Official Agency with Jurisdiction	Distance from Project Footprin t	Type of Use
San Diego Creek Class I Bikeway/Tr ail	Location: City of Irvine		Within	De minimis
	Size: ~9.5 mile length of paved Class 1 off-street bikeway/trail		the project footprint	
	Distance from Project Footprint: vithin 0.5 mi of the project footprint			
	Features: City of Irvine owned bikeway/trail. Connects to the City's bikeway network. Various locations have amenities such as: bicycle racks and stationary storage racks, lockers, drinking water fountains, lighting, landscaping.			

In addition, Figure 3 (below) identifies that there are no other recreational parks within 0.5 mile of the project location.

Figure 3 – Irvine Parks Map

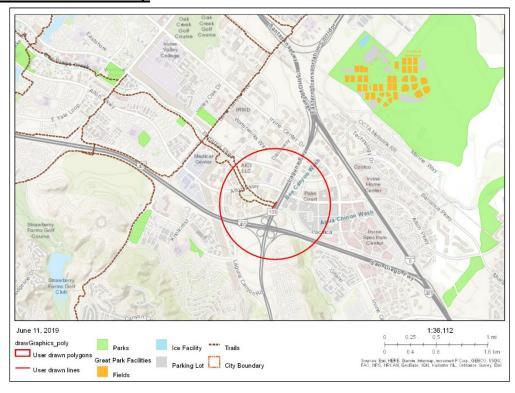


Figure 4 discloses the project's temporary and permanent construction impact. Indicated on Sheet 3 of 5, the bikeway/trail is shown as being temporarily impacted

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Figure 4 – Preliminary Project Plan Sheets (Sheet 1 of 5)

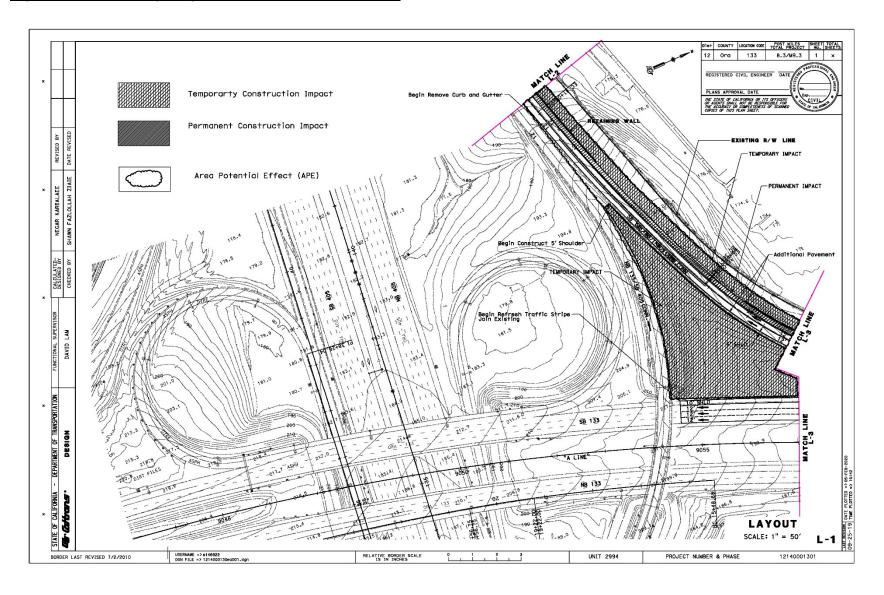
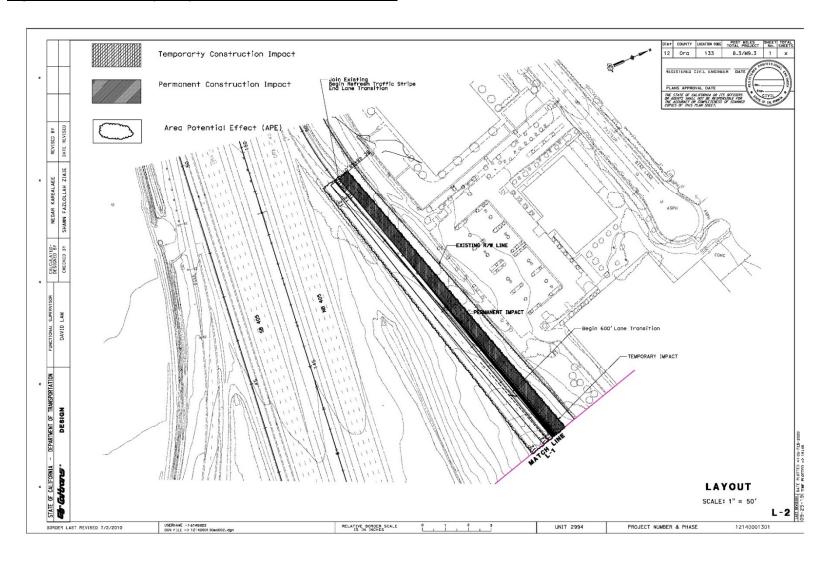


Figure 4 – Preliminary Project Plan Sheets (Sheet 2 of 5)



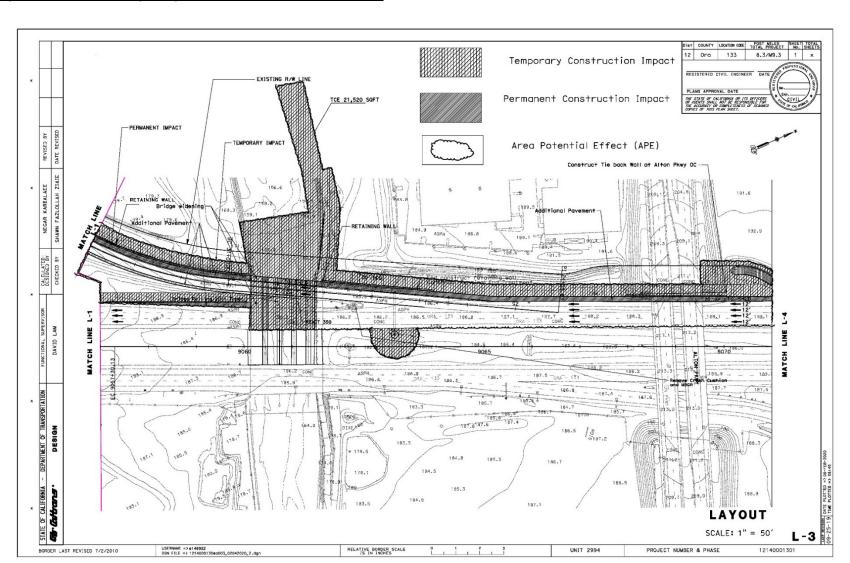


Figure 4 – Preliminary Project Plan Sheets (Sheet 3 of 5)

Figure 4 – Preliminary Project Plan Sheets (Sheet 4 of 5)

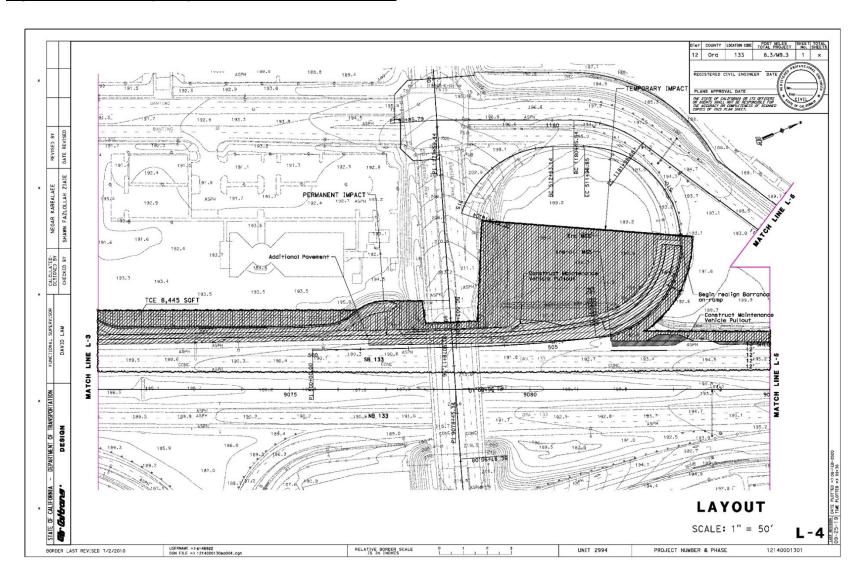
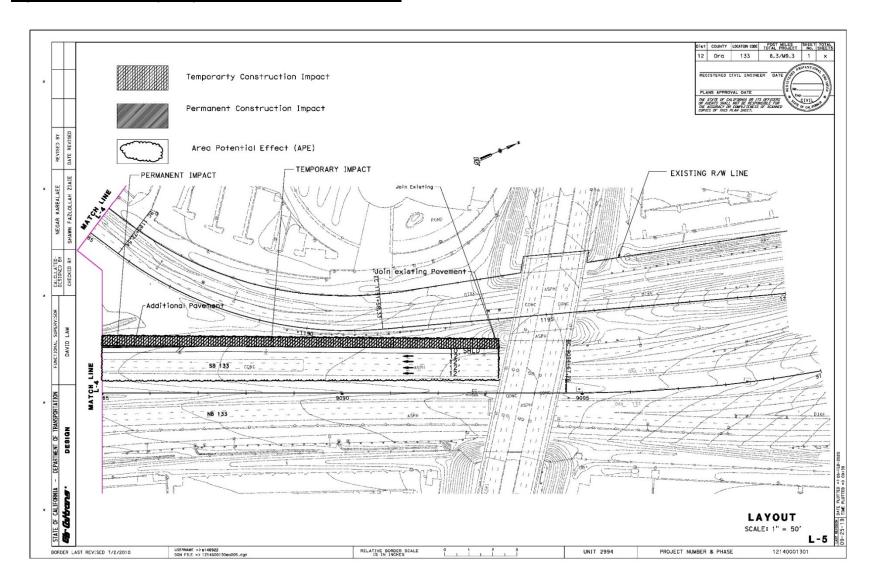


Figure 4 – Preliminary Project Plan Sheets (Sheet 5 of 5)



There is no exception to the "use" to the San Diego Creek Class I Bikeway/Trail because the project cannot meet all five conditions under Temporary Occupancy in order to constitute an exception to the use. The project may involve temporary interference with the ability of the public to use the bikeway/trail by temporary closure of the bikeway/trail at the project location. Therefore, there is a use for the purposes of section 4f.

Why the Use is De Minimis

De Minimis impacts on publicly owned parks, recreation areas, and wildlife and waterfowl refuges are defined as those that do not adversely affect the activities, features and attributes of the Section 4(f) resource. Caltrans must make a finding for each resource and the responsible official with jurisdiction over each resource must agree in writing with that finding.

The temporary use described above will not diminish the function of the San Diego Creek Class I Bikeway/Trail and its associated amenities. There will be no impacts that adversely affect the recreational activities, features and attributes that qualify the property for protection under the requirements of Section 4(f). Access to the bikeway/trail from the project location will temporarily be impacted. The remainder of the bikeway/trail and its connection to the larger network of bikeway/trails will remain open and undisturbed. Shown in Figure 1, the Barranca Trail is directly adjacent to the San Diego Creek Class I Bikeway/Trail at the proposed project location, providing for an alternate route to connect back to the San Diego Creek Class I Bikeway/Trail outside of the project limits.

The project proposes no permanent use nor permanent land conversion. There will be no changes made to the bike facility, but it will be temporarily impacted due to construction activity.

As per the project's standard provision, the construction contractor is required to provide detours to the San Diego Class I Bikeway/Trail for the temporarily closed portion due to construction activities. There are numerous access points to the bikeway/trail, but only the location of construction activity will require temporary closure. The remainder of the bikeway trail and associated bike facility network system within the City of Irvine will remain open and undisturbed. Therefore, the public will still have access to the bikeway/trail by utilizing the provided detours within existing public right of way. There is no designated critical habitat in the project area, and no special status or listed species are expected to occur during project activity. No wetlands or water conveyances will be impacted by the proposed project. The avoidance, minimization and/or mitigation measures that would be implemented during construction will help reduce impacts, if any, to the San Diego Creek Class I Bikeway/Trail.

The temporary impacts to the San Diego Creek Class I Bikeway/Trail would not adversely affect the activities, features, and attributes of the facility. As mentioned, an adjacent trail, Barranca Trail (Class II On-street Bike facility), will be open and available for the public to use that is approximately 0.3 miles north of the San Diego Creek Class I Bikeway/Trail.

Incorporation of the following Avoidance, Minimization and/or Mitigation Measures below will ensure that construction activities will not impact the use of the recreational facilities by the public.

Because of the reasons above, Caltrans has made a *de minimis determination*.

Avoidance, Minimization, and/or Mitigation Measures/Environmental Commitments Record (ECR): To minimize impacts to the Section 4(f) Use, the following project features and minimization measures are included in the proposed project and in the Environmental Commitments Record:

- PF-TRA-1 A Transportation Management Plan (TMP) shall be included in the design plans for implementation by the contractor prior to and during construction of any improvements. The TMP shall consist of prior notices, adequate sign posting, detours, phased construction, and temporary driveways where necessary. The TMP shall specify implementation timing of each plan element (e.g., prior notices, sign posting, detours) as determined appropriate by Caltrans. Adequate local emergency access shall be provided at all times to adjacent uses. Proper detours and warning signs shall be established to ensure public safety. The TMP shall be devised so that construction shall not interfere with any emergency response or evacuation plans. Construction activities shall proceed in a timely manner to reduce impacts.
- PF-BIO-1 To avoid impacts to any nesting birds, ground disturbance that occurs during the nesting bird season (February 1 September 30) will require nesting bird surveys by a Caltrans Biologist within 72 hours prior to the start of work. The Caltrans Biologist will be contacted at least one week ahead of time to schedule a survey
- PF-BIO-2 To avoid the spread of invasive plant species, all vegetation being removed should be disposed of properly. If vegetation is planted on site, the Caltrans Biologist and Landscape Architect will coordinate and approve the proposed vegetation to be planted.
- PF-WQ-2 The project will comply with the provisions of the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) Order No. 2009-0009-DWQ, NPDES General Permit No. CAS000002 and any subsequent permits in effect at the time of construction.
- PF-N-1 During construction of the Project, noise from construction activities may intermittently dominate the noise environment in the immediate area of construction. Noise associated with construction is controlled by 2018 Caltrans Standard Specification Section 14-8.02, "Noise Control," which states the following: Control and monitor noise resulting from work activities. Do not exceed 86 dBA Lmax at 50 feet from the job site from 9 p.m. to 6 a.m.

PF-REC-1: The property used for temporary construction easement will be restored to a condition at least as good as it was prior to easement being granted

REC-1: Caltrans will coordinate with the City of Irvine during the Design phase to ensure collaborative communication among stakeholders. The purpose of these meetings will be to inform the City and its residents about the project's progress and any temporary and/or permanent impacts to the project location. During the Design phase when information on detours and the Traffic Management Plan (TMP) become available, Caltrans will coordinate with the City of Irvine to finalize a detour and ensure that all detours outlined in the TMP be approved and implemented accordingly. Caltrans will continue to keep the City informed on project development and coordinate with the

Consultation and Coordination with the Official Jurisdiction

City as needed.

Caltrans has initiated consultation with the City of Irvine with regards to the characterization of effects of the project in the context of this Section 4(f) analysis, consistent with 49 USC 303(d)(3)(B). Caltrans sent a Preliminary Section 4(f) Resource Analysis coordination letter to City of Irvine (the official with jurisdiction) on January 22, 2019. This Section 4(f) De Minimis Analysis was made available along with the Draft Environmental Document for review and commenting from January 7th, 2020 to February 6th, 2020. On March 9th, 2020, the City of Irvine provided Section 4f Concurrence of the de minimis finding by Caltrans.

3.0: Resources Evaluated Relative to the Requirements of Section 4(f): No-Use <u>Determination</u>

Section 4(f) of the Department of Transportation Act of 1966, codified in federal law at 49 United States Code (USC) 303, declares that "it is the policy of the United States Government that special effort should be made to preserve the natural beauty of the countryside and public park and recreation lands, wildlife and waterfowl refuges, and historic sites."

This section of the document discusses parks, recreational facilities, wildlife refuges, and historic properties found within or next to the project area that do not trigger Section 4(f) protection because: 1) they are not publicly owned, 2) they are not open to the public, 3) they are not eligible historic properties, or 4) the project does not permanently use the property and does not hinder the preservation of the property.

Table 3 - Summary of Properties Subject to Section 4(f) Consideration (No-Use)

	Geographic Location	Number of Properties
Type of Property	to project	
Public Schools	Within 0.5 mile	0
Public Parks and Recreation	Within 0.5 mile	0
Trails	Within 0.5 mile	2
Wildlife and Waterfowl Refuges	Within 0.5 mile	0
NRHP-eligible historic sites	Within the APE	0
NRHP-eligible archaeological	Within the APE	0

<u>Table 4 – Properties Subject to Section 4(f) within 0.5 miles of the Study Area (No-Use)</u>

No.	Property	Address	City	Facilities
1	Barranca Trail	Approximately 90 Pacifica, Irvine, CA 92618	Irvine	Class II On- Street Bikeway Facility
2	Laguna Altura Trail	79 Borghese, Irvine, CA 92618	Irvine	Private community trail (0.5 miles in length) that connects to the San Diego Creek Trail

There would be no use of land from these properties under Section 4(f) (permanent incorporation of land from the property into the transportation facility) and there are no TCEs or other temporary occupancies within the boundaries of all the above-mentioned properties in Table 4 under the Build Alternative. There are no permanent or temporary occupancy of land from these resources under the Build Alternative. Thus, the requirements for protection under Section 4(f) are not triggered for the properties in Table 4.

In terms of proximity or constructive use impacts:

- no staging areas or vehicular access near these resources are proposed,
- no substantial short-term or long-term visual impacts will occur,
- no adverse effects to water quality from construction activities anticipated,
- project constructions activities would not produce substantial operational air quality impacts,
- no long-term substantial noise impacts are anticipated,
- and operation of the Build Alternative would not result in any direct or indirect vegetation impacts.

The properties listed above are Section 4(f) properties, but no "use" will occur. Therefore, the provisions of Section 4(f) do not apply.

Appendix B – Title VI Policy Statement

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY

Gavin Newsom, Governor

DEPARTMENT OF TRANSPORTATION

OFFICE OF THE DIRECTOR P.O. BOX 942873, MS-49 SACRAMENTO, CA 94273-0001 PHONE (916) 654-6130 FAX (916) 653-5776 TTY 711 www.dot.ca.gov



November 2019

NON-DISCRIMINATION POLICY STATEMENT

The California Department of Transportation, under Title VI of the Civil Rights Act of 1964, ensures "No person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance."

Related federal statutes, remedies, and state law further those protections to include sex, disability, religion, sexual orientation, and age.

For information or guidance on how to file a complaint, or obtain more information regarding Title VI, please contact the Title VI Branch Manager at (916) 324-8379 or visit the following web page:

https://dot.ca.gov/programs/business-and-economic-opportunity/title-vi.

To obtain this information in an alternate format such as Braille or in a language other than English, please contact the California Department of Transportation, Office of Business and Economic Opportunity, at 1823 14th Street, MS-79, Sacramento, CA 95811; (916) 324-8379 (TTY 711); or at Title.VI@dot.ca.gov.

Toks Omishakin Director

[&]quot;Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability"

Appendix C – RTP-FTIP

#19-02 ORA ORA001105_SHOPP_MP

2019 FEDERAL TRANSPORTATION IMPROVEMENT PROGRAM ORANGE COUNTY GROUP PROJECT LISTING (in \$000's)

Grouped Projects for Safety Improvements - SHOPP Mobility Program. Scope: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Railroad/highway crossing, Safer non-Federal-aid system roads, Shoulder Imp, traffic control devices ops assistance. Intersection signalization projects, Pavement marking demo, Lighting MOBILITY PROJECTS

RTIP# DESCRIPTION

DEACH 16/10 16/

DRA001105	n Orange County, in Anaheim, at the Commercial Vehicle Enforcement Facility (CVEF), Peralta Weigh Station (Eastbound). Rehab and upgrade CVEF. EA 0N4900 In roange County, in Santa Ana and Tustin, from Dyer Road on ramp to Edinger Avenue off-ramp. Construct northbound Aux. Lane. EA 0G9500 In Orange County, Anaheim, Santa Ana, Fullerton and Buena Park. Install & modify Intelligent Transportation system (ITS) elements. EA 0P42U1 Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) In Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM 10.7/16.6, SR-91 from PM R2.6 to R4.1 and 0.07.2. Implements ICM to	E R C E R C	\$2,015 \$10 \$8,179	\$3,700 \$27,200 \$15,900 \$3,723 \$9			\$10 \$8,179 \$3,700 \$27,200
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DRA001105 E.E. In DRA001105 In E. (C	n roange County, in Santa Ana and Tustin, from Dyer Road on ramp to Edinger Avenue off-ramp. Construct northbound Aux. Lane. EA 0G9500 n Orange County, Anaheim, Santa Ana, Fullerton and Buena Park. nstall & modify Intelligent Transportation system (ITS) elements. EA 0P42U1 Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) n Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM	C R C E		\$27,200 \$15,900 \$3,723			\$3,700 \$27,200
DRA001105 E. E. In DRA001105 In C. (C. (C. (C. (C. (C. (C. (C. (C. (C.	Edinger Avenue off-ramp. Construct northbound Aux. Lane. EA 0G9500 In Orange County, Anaheim, Santa Ana, Fullerton and Buena Park. Install & modify Intelligent Transportation system (ITS) elements. EA 0P42U1 Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) In Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM	E R C	\$8,179	\$27,200 \$15,900 \$3,723			\$27,200
DRA001105 E. E. In DRA001105 In C. (C. (C. (C. (C. (C. (C. (C. (C. (C.	Edinger Avenue off-ramp. Construct northbound Aux. Lane. EA 0G9500 In Orange County, Anaheim, Santa Ana, Fullerton and Buena Park. Install & modify Intelligent Transportation system (ITS) elements. EA 0P42U1 Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) In Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM	R C ER		\$27,200 \$15,900 \$3,723			\$3,700 \$27,200 \$15,900
DRA001105 In	EA 0G9500 In Orange County, Anaheim, Santa Ana, Fullerton and Buena Park. Install & modify Intelligent Transportation system (ITS) elements. EA 0P42U1 Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) In Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM	R C ER		\$27,200 \$15,900 \$3,723			\$27,200
DRA001105 In E. (C	n Orange County, Anaheim, Santa Ana, Fullerton and Buena Park. nstall & modify Intelligent Transportation system (ITS) elements. EA 0P42U1 Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) n Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM	C E R		\$15,900 \$3,723			
DRA001105 In E. (C	nstall & modify Intelligent Transportation system (ITS) elements. EA 0P42U1 Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) n Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM	E R		\$3,723			\$15,900
DRA001105 In E. (C	nstall & modify Intelligent Transportation system (ITS) elements. EA 0P42U1 Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) n Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM	R					
E/(C	EA 0P42U1 Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) n Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM	R					
(C	Combined from 0N9000,0P4100 & 0P4200 to be come 0P42U1) n Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM		1	\$9			\$3,723
In	n Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM	С					\$9
In	n Orange County, on I-5 from PM 33.0/ to 43.2. on SR-57 from PM			\$25,118			\$25,118
	0.7/16.6. SR-91 from PM R2.6 to R4.1 and 0.0/7.2. Implemente ICM to			- 1			
110				- 1			
	educe congestion by leveraging unused capacity along project corridors.	E		\$6,723			\$6,723
	A 0P6700	R		\$320			\$320
Ū.	Jpdate Engineer costs, PS&E request amount greater than Program						
	amount: October 2018 CTC approval	C		\$17,323			\$17,323
- In	n Orange County, at various routes and locations (Route 5, 405, 605).			411,020			411,020
	Construction of inductive system, vehicle detection system and ramp			- 1			
RA001105 n	netering systems.	E		\$2.060			\$2,060
	EA 0Q6900	R		\$24		\$4,727 \$905 \$19,470	\$24
-	21.040300	Ċ	-	\$8,330			\$8,330
- In	n Orange County, on SR-1 between Crystal Heights Drive and First			40,000			40,000
	Street in the cities of Newport Beach, Huntingt5on Beach and Seal			- 1			
	Beach. Remove and replace all existing signal lights at 20 intersections			- 1			
	along SR-1.	E		\$6,190			\$6,190
	EA 0P6800	Ŕ	-	\$1,435			\$1,435
٦	27 OF 0000	Ċ		\$16,462			\$16,462
- In	n Irvine, from SB 5/SB 133 connector to SB 133/NB 405 connector.	-		#10,40Z			₩10,40Z
	Construct new Aux. Jane	E		- 1	- 1	\$4 727	\$4,727
	EA ON8900	R	-			¥ 1 1 = 1	\$905
	- O140900	Ĉ		$\overline{}$			\$19,470
						ψ13 ₁ 470	ψ13 ₁ +10
اا	n Irvine, from Rte. 133 to Sand Canyon Avenue; Also from Sand Canyon		- 1	I	I	I	
	Avenue to University Drive/Jefferey Road. Const. SB Aux. lane	E		- 1			
	EA 0H0451	R					
-	EA UNU43 I	C	\$8,200			\$905 \$19,470	\$8,200
	n Orange County, on Routes 55, 57, 73, 133 and 405. Replace		φ0,200				φ0,200
	METER ON" signal heads with new flashing beacon.	E	\$915	I	I	I	\$915
	METER ON signal heads with new hashing beacon. EA 0Q5800 (Minor SHOPP project)	R	Φ915				φσ15
5	EV OKODOO (IAIIIIOL QUOLL BLOIRCE)	C	\$1,250				\$1,250
- -	Total	U		\$134,517	\$0	60E 400	



Final 2019 Federal Transportation Improvement Program

Orange County Project Listing State Highway (in \$000`s)

							/	. 4000 0/						
ProjectID	County	Air Basin	Model	RTP	D	Program	Route	Begin	End	Signage Begin	Signage End	System	Conformity Category	Amendment
ORA001103	Orange	SCAB		REG0701		SHP03	999					S	EXEMPT - 93.126	0
Description:								PTC	71,342			Agency	CALTRANS	
													art 93.126 Exempt Tables 2 of	ategories - Pavement
	and/or rehabilita													
Fund		ENG	R/W		Total		2	2018/2019	2019/2020		2020/2021	2021/20	22 2022/2023 2023/202	
SHOPP - ADV				71,342	71,342			11,385	59,957					71,342
CONSTRUCT ORA001103				71.342	71.342			11.385	59.957					71.342
ORAUUT 103	Total			71,342	11,342			11,300	58,957					71,342
ProjectID	County	Air Basin	Model	RTP I	D	Program	Route	Begin	End	Signage Begin	Signage End	System	Conformity Category	Amendment
ORA001104	Orange	SCAB		REG0701		SHP02	999					S	EXEMPT - 93.126	0
Description:								PTC	1,260			Agency	CALTRANS	
Grouped Pro	ojects for Should	der Improvem	ents - SHO	PP Roadside F	reservati	on Progran	n. Scop	e: Projects	are consistent	t with 40 C	FR Part 93.	.126 Exemp	t Tables 2 categories - Fencir	ng, Safety roadside rest
areas	*												00.00	No. 17
Fund		ENG	R/W		Total		2	2018/2019	2019/2020		2020/2021	2021/20	22 2022/2023 2023/202	
SHOPP - AD\				1,260	1,260			1,260						1,260
CONSTRUCT ORA001104				1.260	1.260			1.260						1,260
ORA001104	TUIAI			1,200	1,200			1,200						1,260
ProjectID	County	Air Basin	Model	RTP I	D	Program	Route	Begin	End	Signage Begin	Signage End	System	Conformity Category	Amendment
ORA001105	Orange	SCAB		REG0701		SHP01	999					S	EXEMPT - 93.126	0
Description:								PTC	129,561				CALTRANS	
													ole 3 categories - Railroad/hig	hway crossing, Safer non
	system roads,	Shoulder imp			s assistan	ce.Intersec					ng demo,Li			30.00
Fund		ENG	R/W		Total	Prior	2	2018/2019	2019/2020		2020/2021	2021/20	22 2022/2023 2023/202	
SHOPP - ADV				129,561	129,561			10,204	119,357					129,561
CONSTRUCT ORA001105				129.561	129.561			10,204	119.357					129,561
0101001100	Total			120,001	120,001	1		10,201	110,007					120,00
ProjectID	County	Air Basin	Model	RTP I	D	Program		Begin	End	Signage Begin	Signage End	System	Conformity Category	Amendment
ORA001108	Orange	SCAB		REG0701		SHP04	999					S	EXEMPT - 93.126	0
Description:								PTC	27,796			Agency	CALTRANS	
												oles 2 and 1	able 3 categories - Railroad/l	nighway crossing, Safer
	-aid system roa													
Fund		ENG	R/W		Total		2	2018/2019	2019/2020		2020/2021	2021/20	22 2022/2023 2023/202	
SHOPP - AD\ CONSTRUCT	ION			27,796	27,796			7,165	20,631					27,796
ORA001108	Total			27,796	27,796			7,165	20,631					27,796

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County	System	FTIPID	Route #	Description
ORANGE	STATE HIGHWAY	ORA150110	91	SR-91 (SR-57 TO SR-55) - PROJECT PROPOSES TO ADD 1 GP LANE EASTBOUND FROM SR-57 TO SR-55, AND 1 GP LANE WESTBOUND FROM G STREET TO STATE COLLEGE BLVD. ADDITIONAL FEATURES OF THE PROJECT INCLUDE IMPROVEMENTS TO NEARBY LOCAL INTERCHANGES A FREEWAY CONNECTORS. AUXILIARY LANES WILL BE ADDED IN CERTAIN SEGMENTS (PA&ED PHASE).
ORANGE	STATE HIGHWAY	ORA000821	91	SR-91WB (SR-55 THROUGH TUSTIN INTERCHANGE) EXTEND LANE AND RECONSTRUCT AUX. LANE. PPNO 4587A EA 0C560)
ORANGE	STATE HIGHWAY	ORA020807	91	IN ORANGE COUNTY, AT THE COAL CANYON ROAD INTERCHANGE. THE PROJECT IS TO INSTALL VEGETATION ENHANCEMENTS. EA12-0K330
ORANGE	STATE HIGHWAY	ORAO51	241	FOOTHILL TRANSPORTATION CORRIDOR-NORTH (FTC-N - SR 241). 12.7 MI TOLL ROAD BETWEEN OSO PKWY AND ETC, CONSISTENT WITH SC 4/05/01. EXISTING 2 M/F IN EA DIR. 2 ADDITIONAL M/F, PLS CLIMBING & AUX LANES BY 2020.
ORANGE	STATE HIGHWAY	ORA052	241	FOOTHILL TRANSPORTATION CORRIDOR-SOUTH (FTC-S - SR 241). 10.3 MI TOLL ROAD BETWEEN SAN DIEGO COUNTY LINE AND OSO PKWY, WITH SCAG/TCA MOU 4/05/01. 2 M/F EA DIR FROM OSO PKWY TO COW CAMP RD BY 2017. 2 M/F EA DIR FROM COW CAMP RD TO SAN DIEGO 2021. 1ADDITIONAL M/F EA DIR PLS CLIMBING & AUX LANES BY 2030.
ORANGE	STATE HIGHWAY	ORA111207	241	241/91 EXPRESS LANES (HOT) CONNECTOR: NB SR-241 TO EB SR-91, WB SR-91 TO SB SR-241, PER SCAG/TCA MOU 4/05/01.
ORANGE	STATE HIGHWAY	ORA111207	241	241/91 EXPRESS LANES (HOT) CONNECTOR: NB SR-241 TO EB SR-91, WB SR-91 TO SB SR-241, PER SCAG/TCA MOU 4/05/01. PARENT PROJECT
ORANGE	STATE HIGHWAY	ORA050	241	EASTERN TRANSPORTATION CORRIDOR (ETC- SR 241/261/133) 26.4 MI TOLL ROAD CONNECTS SR 91 TO I-5 VIA SR 261 AND SR 133, CONSISTI TCA MOU 4/05/01. EXISTING 2 M/F EA DIR. 2 ADDITIONAL M/F IN EA DIR, PLUS CLIMBING AND AUX LANES BY 2020.
ORANGE	STATE HIGHWAY	ORA131304	405	1-405(1-5 TO SR-55)-ADD 1 MF LANE EACH DIRECTION FROM 1-5 TO SR-55 AND IMPROVE MERGING. (UTILIZE TOLL CREDIT MATCH FOR RSTP) BY AND IMPROVE MERGING.
ORANGE	STATE HIGHWAY	ORA130064	405	I-405 – ADD ONE SOUTHBOUND AUXILIARY LANE FROM UNIVERSITY DRIVE TO SAND CANYON (SEGMENT 2) AND SAND CANYON AVENUE TO (SEGMENT 1)
ORANGE	STATE HIGHWAY	ORA113030	405	WIDEN RAMP FOR DECELERATION LANE - NB I-405 FROM 1 MILE NORTH OF JEFFERY RD TO CULVER DR. 0.6 MILES SPLIT FROM ORA001105
ORANGE	STATE HIGHWAY	ORA000194	405	HOV CONNECTORS FROM I-405 TO I-605, BETWEEN KATELLA AVE. (I-605 PM R001.104) AND SEAL BEACH BLVD. (I-405 PM 022.643), WITH A LANE IN EACH DIRECTION ON I-405 BETWEEN THE TWO DIRECT CONNECTORS. TOLL CREDITS FOR CMAQ.
ORANGE	STATE HIGHWAY	ORA030605	405	I-405 FROM SR-73 TO I-605. ADD 1 MF LANE IN EACH DIRECTION, AND ADDITIONAL CAPITAL IMPROVEMENTS. COMBINED WITH ORA045, OR/AND ORA120310. PHASE 2 LISTED UNDER ORA030605A
ORANGE	STATE HIGHWAY	ORA030605A	405	I-405 FROM SR-73 TO I-605. CONVERT EXISTING HOV TO HOT. ADD 1 ADDITIONAL HOT LANE EACH DIRECTION AND ADD A HOT DIRECT CONN (BY 2035). PHASE 1 PROJECT LISTED UNDER ORA030605
ORANGE	STATE HIGHWAY	ORA001108	999	GROUPED PROJECTS FOR SAFETY IMPROVEMENTS - SHOPP MANDATES PROGRAM. SCOPE: PROJECTS ARE CONSISTENT WITH 40 CFR PAF EXEMPT TABLES 2 AND TABLE 3 CATEGORIES - RAILROAD/HIGHWAY CROSSING, SAFER NON-FEDERAL-AID SYSTEM ROADS, SHOULDER IMP, CONTROL DEVICES AND OPS ASSISTANCE OTHER THAN SIGNALIZATION PROJECTS, LIGHTING IMP
ORANGE	STATE HIGHWAY	ORA040607	999	ORANGE COUNTY - COUNTYWIDE ACTIVITIES: PLANNING, PROGRAMMING AND MONITORING (PPM)
ORANGE	STATE HIGHWAY	ORA001104	999	GROUPED PROJECTS FOR SHOULDER IMPROVEMENTS - SHOPP ROADSIDE PRESERVATION PROGRAM. SCOPE: PROJECTS ARE CONSISTEN PART 93.126 EXEMPT TABLES 2 CATEGORIES - FENCING, SAFETY ROADSIDE REST AREAS
ORANGE .	STATE HIGHWAY	ORA084402	999	GROUPED PROJECTS FOR PURCHASE OF OFFICE, SHOP, AND OPERATING EQUIPMENT FOR EXISTING FACILITIES. SCOPE - PROJECTS ARE C WITH 40 CFR PART 93.126 EXEMPT TABLES 2 AND TABLE 3 CATEGORIES - PURCHASE OF OFFICE, SHOP, AND OPERATING EQUIPMENT FOR E FACILITIES
ORANGE	STATE HIGHWAY	ORA001103	999	GROUPED PROJECTS FOR PAVEMENT RESURFACING AND/OR REHABILITATION - SHOPP ROADWAY PRESERVATION PROGRAM. SCOPE: PROCONSISTENT WITH 40 CFR PART 93.126 EXEMPT TABLES 2 CATEGORIES - PAVEMENT RESURFACING AND/OR REHABILITATION, EMERGENCY 125), WIDENING NARROW PAVEMENTS OR RECONSTRUCTING BRIDGES (NO ADDITIONAL TRAVEL LANES)
ORANGE	STATE HIGHWAY	ORA001105	999	GROUPED PROJECTS FOR SAFETY IMPROVEMENTS - SHOPP MOBILITY PROGRAM. SCOPE: PROJECTS ARE CONSISTENT WITH 40 CFR PART TABLES 2 AND TABLE 3 CATEGORIES - RAILROAD/HIGHWAY CROSSING, SAFER NON-FEDERAL-AID SYSTEM ROADS, SHOULDER IMP, TRAFFIC DEVICES OPS ASSISTANCE.INTERSECTION SIGNALIZATION PROJECTS. PAVEMENT MARKING DEMOLIGHTING
ORANGE	STATE HIGHWAY	ORA001109	999	GROUPED PROJECTS FOR BRIDGE REHABILITATION AND RECONSTRUCTION - SHOPP PROGRAM, SCOPE: PROJECTS ARE CONSISTENT WIT 93.126 EXEMPT TABLES 2 CATEGORIES - WIDENING NARROW PAVEMENTS OR RECONSTRUCTING BRIDGES (NO ADDITIONAL TRAVEL LANES)

2018 SHOPP Project List Orange





Dist- Co-Rte Post Mile PPNO EFIS	Location/Description	EA Prog Year	Сар	oital	Suppo		COS Allocation FY	Miles	tones
12-Orange-39 15.2/15.9 3230A 1212000031	In Buena Park, from Auto Center Drive to Craig Avenue. Rehabilitate drainage systems, install new inlets, Reinforced Concrete Pipes (RCP) and replace flood damaged sections of curb and gutters.	0F970 2019-20	R/W: Const:	\$414 \$2,226	PA&ED: PS&E: R/W Sup: Con Sup:	\$870 \$153 \$906	Prior Prior 19-20	PA&ED: R/W Cert: RTL: Begin Con:	6/26/2017 11/1/2019 11/15/2019 7/15/2020
			Subtotal: Total Proj	\$2,640 ect Cost:		\$1,929 \$4,569			
Carryover			Program (Prainage S Culvert(s) (ystem Resto	ration	
12-Orango-133 3.1/R4.3 4792 1216000133	In Orange County, from 0.3 mile south of El Toro Road to 0.2 mile north of Route 73/133 Interchange. Construct detention basin, reconstruct channel, extend reinforced concrete box and regrade to prevent adverse flow.	0Q360 2019-20	R/W: Const:	\$1,467 \$2,095	PA&ED: PS&E: R/W Sup: Con Sup:	\$1,125 \$1,712 \$766 \$1,188	Prior 18-19 18-19 19-20	PA&ED: R/W Cert: RTL; Begin Con:	10/2/2018 4/17/2020 6/15/2020 1/5/2021
			Subtotal: Total Proj	\$3,562 ect Cost:		\$4,791 \$8,353			
Carryover			Program (Prainage S Culvert(s) (ystem Resto	ration	
MOBILITY									
12-Orange-55 R8.0/R9.2 3483 1215000045	In the cities of Santa Ana and Tustin, from Dyer Road onramp to Edinger Avenue offramp. Construct northbound auxiliary lane.	0G950 2019-20	R/W: Const:	\$24,500 \$13,100	PA&ED: PS&E: R/W Sup: Con Sup:	\$200 \$3,500 \$2,700 \$2,800	Prior Prior Prior 19-20	PA&ED: R/W Cert: RTL: Begin Con:	9/11/2017 6/1/2020 6/15/2020 12/23/2020
			Subtotal: Total Proj	\$37,600 ect Cost:		\$9,200 \$46,800			
Carryover			Program (•	I Improvement	ents f delay (DVHI))
12-Orange-133 8.5/M9.3 4846 1214000130	In Irvine, from southbound 5/SB 133 Connector to southbound 133/NB 405 Connector. Construct a new auxiliary lane to improve traffic flow.	0N890 2021-22	R/W: Const:	\$253 \$14,926	PA&ED: PS&E: R/W Sup: Con Sup:	\$1,503 \$3,224 \$652 \$4,544	18-19 19-20 19-20 21-22	PA&ED: R/W Cert: RTL: Begin Con:	11/1/2019 9/1/2021 10/1/2021 3/1/2022
			Subtotal: Total Proj			\$9,923 \$25,102			
V			Program (-		I Improveme		
New			Performan	ice Measu	re 271 D	aily vehic	ele hour(s) o	f delay (DVHI	0)

Appendix D - List of Technical Studies

Air Quality Report (November 2019) – Prepared by Caltrans District 12

Revised Air Quality Report (December 2019) - Prepared by Caltrans District 12

Historic Property Survey Report (January 2020) and Archaeological Survey Report (ASR)—Prepared by LSA Associates, Inc.

Preliminary Hydraulic Evaluation (April 2019) – Prepared by Caltrans District 12

Structure Preliminary Geotechnical Report (4 reports in all) (April 2019)
Prepared by Caltrans District 12

Noise Study Report (September 2019) - Prepared by Caltrans District 12

Noise Abatement Decision Report (September 2019) – Prepared by Caltrans District 12

Natural Environment Study Minimal Impacts (NES MI) and Jurisdictional Delineation (JD) (December 2019) – Prepared by Caltrans District 12

Paleontological Identification Report and Paleontological Evaluation Report (September 2019) Prepared by LSA Associates, Inc.

Supplemental Natural Environment Study Minimal Impacts (NES MI) (March 13, 2020) – Prepared by Caltrans District 12

Supplemental Paleontological Identification Report and Paleontological Evaluation Report Memo and Paleontological Identification Report and Paleontological Evaluation Report (January 2020) Prepared by LSA Associates, Inc.

Initial Site Assessment Checklist (May 2016) - Prepared by Caltrans District 12

Visual Impact Assessment Questionnaire (July 2019) - Prepared by Caltrans District 12

Water Quality Technical Memorandum (December 2019) – Prepared by Caltrans District 12

Appendix E – Avoidance, Minimization, and/or Mitigation Summary

In order to be sure that all of the environmental measures identified in this document are executed at the appropriate times, the following mitigation program (as articulated on the proposed Environmental Commitments Record [ECR] which follows) would be implemented. During project design, avoidance, minimization, and /or mitigation measures will be incorporated into the project's final plans, specifications, and cost estimates, as appropriate. All permits will be obtained prior to implementation of the project. During construction, environmental and construction/engineering staff will ensure that the commitments contained in this ECR are fulfilled. Following construction and appropriate phases of project delivery, long-term mitigation maintenance and monitoring will take place, as applicable. As the following ECR is a draft, some fields have not been completed, and will be filled out as each of the measures is implemented.

Note: Some measures may apply to more than one resource area. Duplicative or redundant measures have not been included in this ECR.

Note: Mitigation measures are used to lessen a significant impact under CEQA

Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
Project Feature	Air Quality	PF-AQ-1: The construction contractor must comply with Caltrans Standard Specification in Section 14-9, Air Quality, which specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations	Resident Engineer Project Engineer	Design Construction	No
	and ordinances.	<u> </u>			
Project	Hazardous	PF-HAZ-1: Solid Waste Disposal and Recycling Section 14.10 of CT 2018 SSPs. to reduce GHG	Resident Engineer	Design	No
Feature Materials	emissions and potential climate change impacts	Contractor	Construction	110	
Project	Project Hazardous disturba Feature Materials disturba materia at an ap	PF-HAZ-2: Should construction activities result in the disturbance of traffic striping and pavement marking materials, the generated wastes would be disposed of	Resident Engineer	Design	No
Feature		at an appropriate permitted disposal facility as determined by a lead specialist	Contractor	Construction	
Project Feature	Hazardous Materials	PF-HAZ-3: During construction, the construction contractor will monitor soil excavation for visible soil staining, odor, and the possible presence of unknown hazardous material sources. If hazardous material contamination or sources are suspected or identified during project construction activities, the construction contractor will be required to cease work in the area and to have an environmental professional evaluate the soils and materials to determine the appropriate course of action required, consistent with the Unknown Hazards Procedures in Chapter 7 of the Caltrans' Construction Manual	Resident Engineer Contractor	Design Construction	No
Project Feature	Noise	PF-N-1: During construction of the Project, noise from construction activities may intermittently dominate the noise environment in the immediate area of	Resident Engineer	Design Construction	No

Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
		construction. Noise associated with construction is controlled by 2018 Caltrans Standard Specification Section 14-8.02, "Noise Control," which states the following: Control and monitor noise resulting from work activities. Do not exceed 86 dBA Lmax at 50 feet from the job site from 9 p.m. to 6 a.m.	Project Engineer		
Project Feature	Recreation	PF-REC-1: The property used for temporary construction easement will be restored to a condition at least as good as it was prior to easement being granted	Resident Engineer Project Engineer	Design Construction	No
Project Feature	Water Quality	PF-WQ-1: The project will comply with the provisions of the National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements for the State of California Department of Transportation, Order No. 2012-0011-DWQ, NPDES No. CAS000003 and any subsequent permits in effect at the time of construction.	Resident Engineer Project Engineer	Construction	No
Project Feature	Water Quality	PF-WQ-2 Caltrans Standard Specification 13-3.01D (2)-Regulatory Requirements: The project will comply with the provisions of the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) Order No. 2009-0009-DWQ, NPDES General Permit No. CAS000002 and any subsequent permits in effect at the time of construction.	Resident Engineer Project Engineer	Design Construction	No
Project Feature	Water Quality	PF-WQ-3 Caltrans Standard Specification 13-3 Storm Water Pollution Prevention Plan: The project will comply with the Construction General Permit by	Resident Engineer	Design Construction	No

Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
		preparing and implementing a Storm Water Pollution Prevention Plan (SWPPP) to address all construction-related activities, equipment, and materials that have the potential to impact water quality for the appropriate Risk Level. The SWPPP will identify the sources of pollutants that may affect the quality of Storm water and include BMPs to control the pollutants, such as: sediment control, catch basin inlet protection, construction materials management, and non-storm water BMPs. All work must conform to the Construction Site BMP requirements specified in the latest edition of the Storm Water Quality Handbooks: Construction Site Best Management Practices Manual to control and minimize the impacts of construction and construction related activities, material and pollutants on the watershed. These include, but are not limited to temporary sediment control, temporary soil stabilization, scheduling, waste management, materials handling, and other non-storm water BMPs	Project Engineer		
Project Feature	Water Quality	PF-WQ-4: Design Pollution Prevention BMPs will be implemented such as preservation of existing vegetation, slow/surface protection systems (permanent soil stabilization), concentrated flow conveyance systems such as ditches, berms, dikes and swales, overside drains, flared end sections, and outlet protect/velocity dissipation devices.	Project Engineer Resident Engineer	Design Construction	No
Project Feature	Water Quality	PF-WQ-5: Caltrans approved treatment BMPs will be implemented consistent with the requirements of NPDES permit and Waste Discharge Requirements for the State of California, Department of Transportation, Order No. 2012-001-DWQ, NPDES	Project Engineer Resident Engineer	Design Construction	No

Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
		No. CA200003 and any subsequent permits in effect at the time of construction.			
Project Feature	Water Quality	PF-WQ-6: Any discharges of groundwater to surface waters during construction will be subject to the General Waste Discharge Permit for Discharges to Surface Waters of Groundwater Resulting from Groundwater Dewatering Operations and/or Groundwater Cleanup Activities at Sites Within the San Diego Creek/ Newport Bay Watershed Polluted by Petroleum Hydrocarbons, Solvents, Metals, and/ or Salts (Order No. R8-2007-0042, NPDES NO.	Project Engineer Resident Engineer	Design Construction	No
		CAG918002) and any subsequent updates to the permit at the time of construction.			
Compensatory	Biology	B-1 The project will result in 0.006 acres of permanent impacts to Corps non-wetland waters of the U.S and CDFW unvegetated streambed. In compliance with RWQCB's request, Caltrans will compensate for permanent impacts of waters to the U.S/unvegetated streambed off-site at a minimum of 1:1 Ratio by purchasing riparian credits from the San Luis Rey or Soquel Canyon Mitigation Bank	Project Engineer Biologist Resident Engineer	Design Construction	
Project Feature	Biology	PF-BIO-1: To avoid impacts to any nesting birds, ground disturbance that occurs during the nesting bird season (February 1 – September 30) will require nesting bird surveys by a Caltrans Biologist within 72 hours prior to the start of work. The Caltrans Biologist will be contacted at least one week ahead of time to schedule a survey	Project Engineer Resident Engineer	Design Construction	No

Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
Project Feature	Biology	• PF-BIO-2: To avoid the spread of invasive plant species, all vegetation being removed should be disposed of properly. If vegetation is planted on site, the Caltrans Biologist and Landscape Architect will coordinate and approve the proposed vegetation to be planted. During construction, the contractor shall inspect and clean construction equipment at the beginning of each day and prior to transporting equipment into the creek During construction, soil and vegetation disturbance will be minimized to the greater extent feasible. Contractor shall use weed-free straw and fiber rolls to use for erosion control. During construction, the contractor shall ensure that all material stockpiled within the creek sufficiently watered and covered to prevent growth of invasive plants. During construction gravel and rock will be obtained from weed-free sources.	Project Engineer Resident Engineer	Design Construction	No
Avoidance	Biology	BIO-1 Prior to any construction, highly visible barriers (ESA fence) will be installed around the project disturbance limits to designate Environmentally Sensitive Areas within San Diego creek. The ESA fence shall be installed			

Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
		under the direction of a qualified Biologist. Silt fence barriers will be installed at the ESA boundary to prevent accidental deposition of fill material in areas.			·
Avoidance	Biology	BIO-2 Prior to the beginning of construction adjacent to the ESAs, a qualified biologist will survey areas adjacent to the ESA boundaries to flush any wildlife species present prior to construction and ensure all avoidance measures are properly implemented			
Avoidance	Biology	BIO-3 A Storm Water Pollution Prevention Plan (SWPPP) will be developed and implemented to comply with the National Pollutant Discharge Elimination System (NPDES) Statewide Construction General Permit (CGP). The SWPPP will identify and implement temporary Best Management Practices (BMPs) during construction to address the temporary impacts to water quality.	Project Engineer Biologist Resident Engineer	Construction	No
Avoidance	Biology	BIO-4 Equipment including but not limited to excavators, motor vehicles and trucks shall not be allowed to operate in the ESAs. No equipment and material storage will be allowed within or adjacent to ESAs. All equipment maintenance, staging dispensing of fuel oil or any other such activities shall occur in developed or designated non-sensitive areas. This area shall be reviewed and approved by the District Biologist. Upon completion of construction, the ESA fence shall be removed.	Project Engineer Biologist Resident Engineer	Construction	No No

Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required	
	Biology	BIO-5 Appropriate permits from the US Army Corps of Engineers, the California Department of	Project Engineer	Construction	No	
Avoidance		Fish and Wildlife, and the Regional Water Quality Control Board will be obtained prior to construction.	Biologist	Construction	No	
			Resident Engineer			
	Biology	BIO-6 In the event that suitable trees for Cooper's	Engineer	Construction	NO	Const
		hawk nests are required to be removed during nesting season, a qualified biologist will conduct pre-	Biologist		No	
Avoidance		construction nesting bird surveys. If nesting Cooper's hawk are found, the biologist will create a buffer zone and an ESA fence will be placed around the buffer	Resident Engineer			
Avoluance		zone. No construction work shall occur within the				
		buffer zone until the nest is no longer active and all young birds fledged.				
	Biology	BIO-7 Although suitable roosting habitats are	Engineer		NO	Contsit
		present within the BSA and no evidence of bats was observed this year, it is possible that the	Biologist	Construction	No	
		hinges within the San Diego Creek bridge or palm	Resident			
Avoidance		trees may be used at other times of the year or	Engineer			
		during the construction period. Therefore, one				
		year prior to the beginning of construction, a bat				
		assessment survey and day/nighttime emergence				
		surveys will be conducted during maternity				

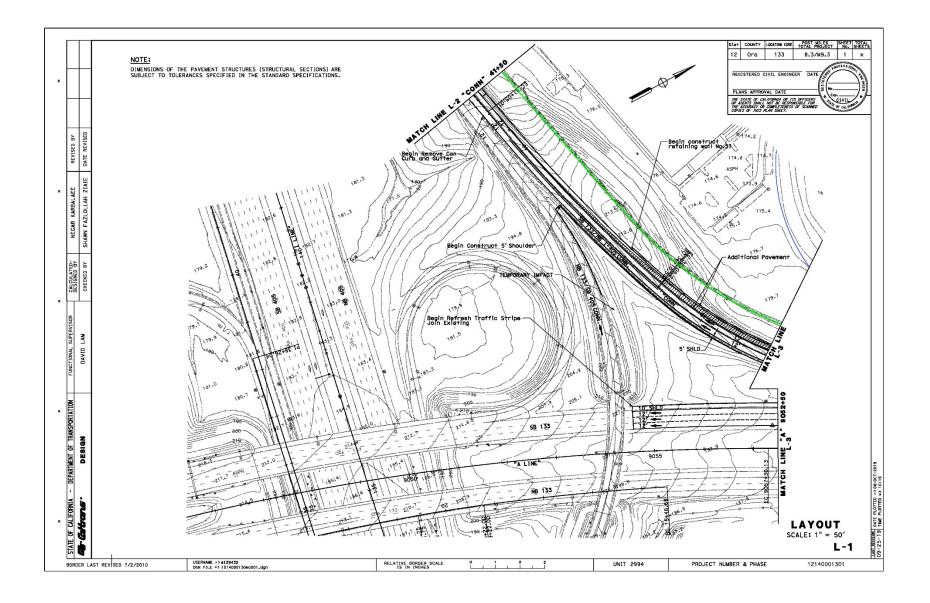
Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
		season. The survey includes a combination of	, , , , , , , , ,		
		suitable habitat assessment, exit counting, and			
		acoustic surveys. If maternity roosting bats are			
		found, additional avoidance and minimization			
		measures will be included at the time of the			
		survey.			
		BIO-8 A bat survey will be conducted two weeks		Construction	No
		prior to beginning of construction work within San			
		Diego creek bridges. If the bridges are			
		determined to be occupied outside maternity			
	Biology	roosting period, bat exclusion devise (one-way	Engineer		
		doors) will be installed. A qualified bat biologist	Liigiileei		
Avoidance		will monitor the installation and exclusion of bats	Biologist		
		during construction period. If maternity roost is	Resident		
		present, no work under the bridge will occur	Engineer		
		during maternity season (April-August) and	_		
		exclusion devise will be installed after September			
		1 or after all young leave the structure.			
Project		PF-CUL-1 Caltrans Standard Specification Section 14-2.03A: Discovery of Cultural Materials. If cultural materials are discovered during construction activities,	Archaeologist		
	Cultural	the construction Contractor will divert all earthmoving	Resident	Construction	No
Feature	Resource	activity within and around the immediate discovery	Engineer	Construction	No
		area until a qualified archaeologist can assess the nature and significance of the find. At that time, coordination will be maintained with the California	Contractor		

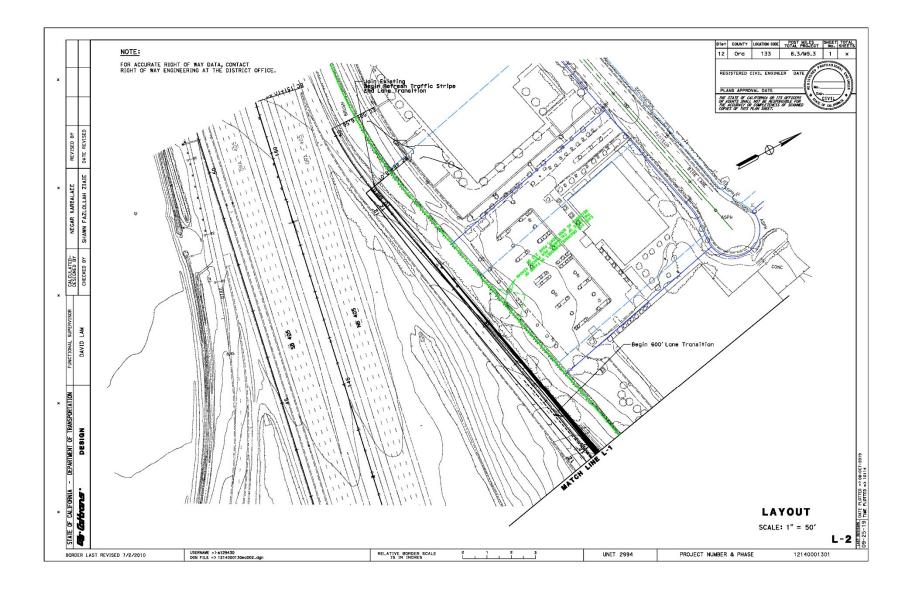
Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
		Department of Transportation District 12 Environmental Branch Chief or the District 12 Native American Coordinator to determine an appropriate course of action PF-CUL-2 Caltrans Standard Specification Section			
Project Feature	Cultural Resource	14-2.03A: Discovery of Human Remains. If human remains are discovered during construction activities, California State Health and Safety Code (H&SC) Section 7050.5 states that further disturbances and activities shall cease in any area or nearby area suspected o overlie remains, and the Orange County Coroner shall be contacted. If the remains are thought to be Native American, the Coroner will notify the Native American Heritage Commission (NAHC), who pursuant to California Public Resources Code (PRC) Section 5097.98, will then notify the Most Likely Descendant (MLD). At that time, the persons who discovered the remains will contact the Caltrans District 12 Environmental Branch Chief or the District 12 Native American Coordinator so that they may work with the MLD on the respectful treatment and disposition of the remains. Further provisions of California PRC 5097.98 are to be followed as applicable.	Archaeologist Resident Engineer Contractor	Construction	No
Mitigation**		PAL-1 Caltrans Standard Special Provision Section 14-7.04 Paleontological Mitigation Plan: A Paleontological Mitigation Plan (PMP) shall be prepared during the Plans, Specifications, and	Project Engineer Archaeologist	Design Construction	
	Paleontology	Estimates (PS&E) phase. The PMP shall be developed concurrently with the final design plans and shall follow the Caltrans guidelines in the SER, Environmental Handbook, Volume 1.	Resident Engineer	Post- Construction	No

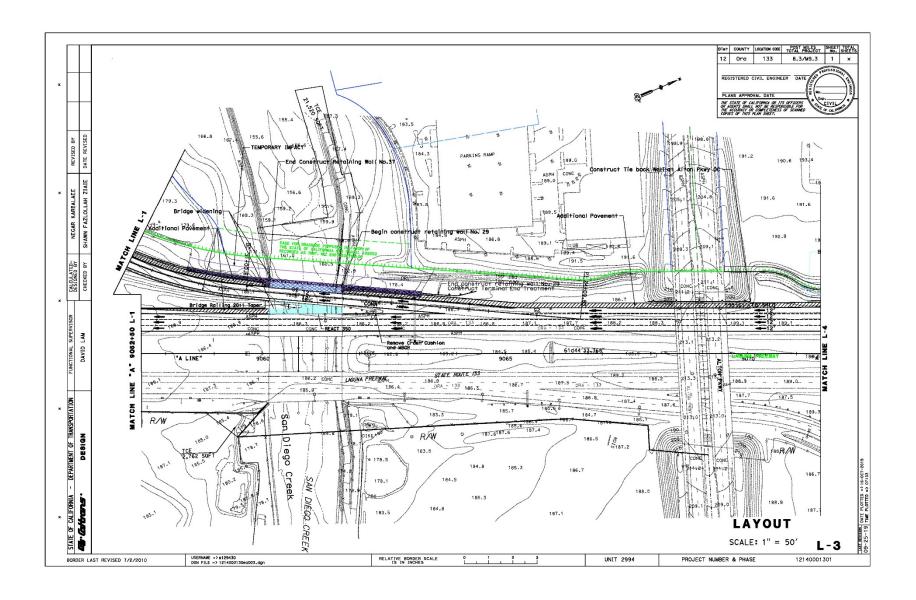
Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
		Chapter 8 – Paleontology (Caltrans, 2017), as well as guidelines from the Society of Vertebrate Paleontology (SVP). Following these guidelines, the PMP shall include sections describing project activities, the geologic units within the project area and their paleontological sensitivities, the work plan for mitigating project impacts to paleontological resources, estimates of monitoring schedules and costs, decision thresholds for monitoring levels and fossil collections, a recommended repository for recovered fossils, any necessary permits, and the appropriate documentation at the end of the monitoring program. Once the PMP has been prepared, the paleontological resource protocols and procedures within it shall be incorporated into the project plans, specifications, and estimates.	Contractor		
Project Feature	Paleontology	PF-PAL-1: If unanticipated paleontological resources are discovered all work within 60 feet of the discovery must cease and the construction resident engineer must be notified. Work cannot continue near the discovery until authorized.	Resident Engineer Archaeologist Contractor	Construction Post- Construction	No
Project Feature	Traffic	PF-TRA-1: A Transportation Management Plan (TMP) shall be included in the design plans for implementation by the contractor prior to and during construction of any improvements. The TMP shall consist of prior notices, adequate sign posting, detours, phased construction, and temporary driveways where necessary. The TMP shall specify	Traffic Engineer Resident Engineer	Design Construction	No

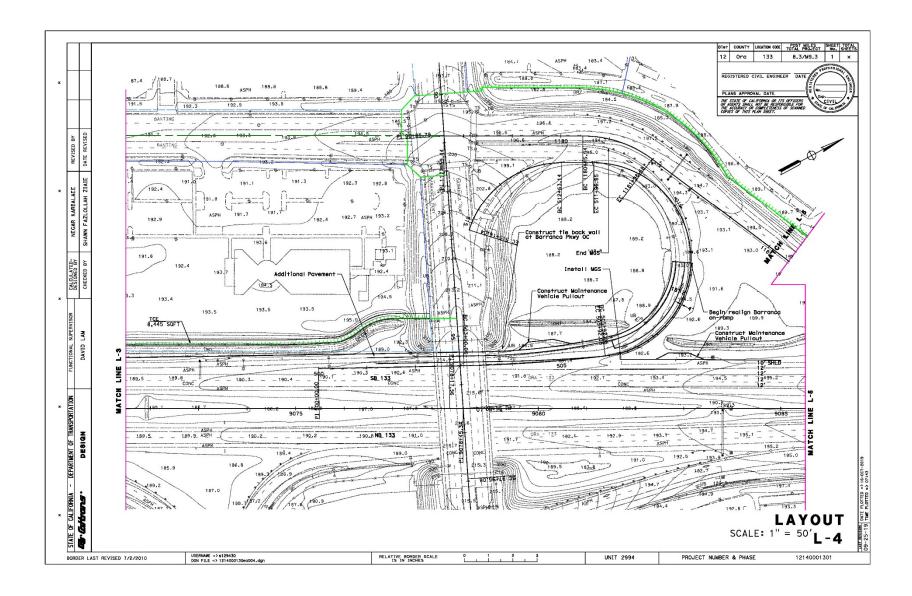
Measure	Resource Area	Task and Brief Description	Responsible Branch, Staff	Timing / Phase	NSSP Required
		implementation timing of each plan element (e.g., prior notices, sign posting, detours) as determined appropriate by Caltrans. Adequate local emergency access shall be provided at all times to adjacent uses. Proper detours and warning signs shall be established to ensure public safety. The TMP shall be devised so that construction shall not interfere with any emergency response or evacuation plans. Construction activities shall proceed in a timely manner to reduce impacts.	Project Engineer Contractor		
Avoidance	Recreation	REC-1: Caltrans will coordinate with the City of Irvine during the Design phase to ensure collaborative communication among stakeholders. The purpose of these meetings will be to inform the City and its residents about the project's progress and any temporary and/or permanent impacts to the project location. During the Design phase when information on detours and the Traffic Management Plan (TMP) become available, Caltrans will coordinate with the City of Irvine to finalize a detour and ensure that all detours outlined in the TMP be approved and implemented accordingly. Caltrans will continue to keep the City informed on project development and coordinate with the City as needed.	Traffic Engineer Resident Engineer Project Engineer Contractor	Design Construction	No

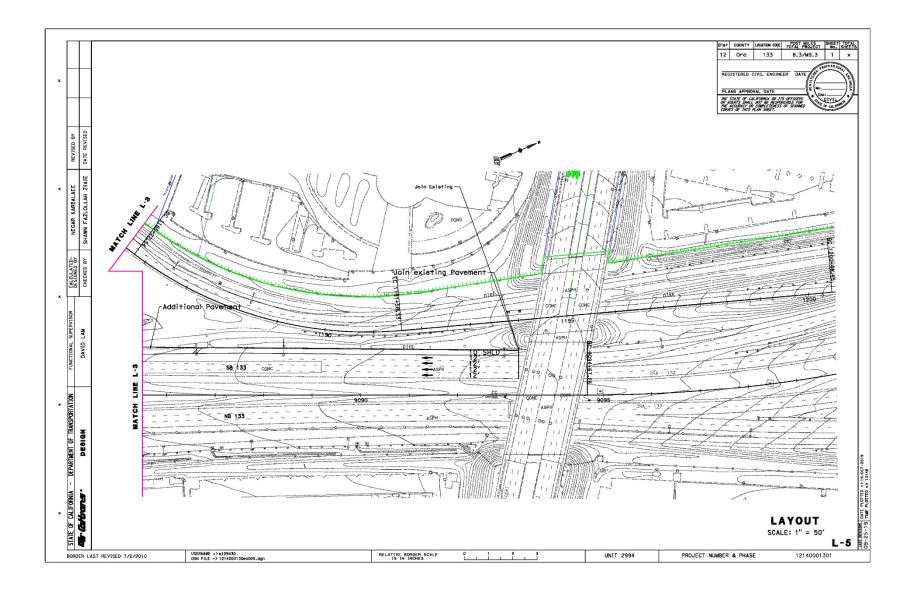
Appendix F – Layout Plans











Appendix G – Construction Emissions

DATE: 10/21/2019

PROJECT: SB Rte 133 Traffic Operation Improvement Project

Summary of Project Emissions and Fuel Consumption

	TOG	ROG	со	NOx	PM10	PM2.5	CO2	CH4	N2O	вс		500 1003	Gasoline Fuel
Daily Average (lbs/day; gal fuel/day)	2.15	2.00	9.44	12.99	2.01	1.02	2565	0.08	0.13	0.15	0.07	108	56
Maximum Daily Average (lbs/day; gal fuel/day)	5.14	4.76	31.16	32.95	8.21	2.69	6167	0.21	0.36	0.34	0.22	261	148
Annual Average (tons/year; gal fuel/year)	0.28	0.26	1.23	1.69	0.26	0.13	334	0.01	0.02	0.02	0.01	28083	14625

Summary by Source Project Total Emissions and Fuel Consumption (tons; gal fuel)

												Diesel	Gasoline
Source	TOG	ROG	со	NOx	PM10	PM2.5	CO2	CH4	N2O	вс	HFC	Fuel	Fuel
On-Road	0.02	0.01	0.14	0.44	0.00	0.00	219	0.00	0.026	0.001	0.014	17250	24041
Off-Road	0.44	0.41	1.88	2.34	0.20	0.19	330	0.01	0.003	0.032	-	28913	-
Area-Wide Fugitive Dust	-	<u>=</u> 2	-	-	0.23	0.02	-	-	-	-	=	-	-
Painting and Asphalt Application	0.00	0.00	-	-	=	-	-	-	_	=	-	_9	_
Project Total	0.46	0.43	2.02	2.78	0.43	0.22	549	0.02	0.03	0.03	0.01	46163	24041

Summary by Operation Total Emissions and Fuel Consumption by Operation (tons; gal fuel)

												Diesel	Gasoline
Project Phases	TOG	ROG	co	NOx	PM10	PM2.5	CO2	CH4	N2O	BC	HFC	Fuel	Fuel
Land Clearing/Grubbing	0.01	0.01	0.05	0.06	0.06	0.01	14	0.000	0.001	0.001	0.000	1190	664
Roadway Excavation & Removal	0.07	0.06	0.39	0.44	0.09	0.04	85	0.003	0.004	0.007	0.002	7152	3938
Structural Excavation & Removal	0.01	0.01	0.04	0.07	0.06	0.01	17	0.001	0.001	0.001	0.000	1405	1362
Base/Subbase/Imported Borrow	0.17	0.16	1.03	1.09	0.14	0.09	204	0.007	0.009	0.006	0.004	17228	8369
Structure Concrete	0.13	0.13	0.35	0.69	0.04	0.04	142	0.004	0.008	0.011	0.004	11950	5286
Paving	0.02	0.02	0.05	0.15	0.01	0.01	28	0.001	0.002	0.002	0.001	2298	1374
Drainage/Environment/Landscaping	0.03	0.03	0.08	0.21	0.02	0.02	38	0.001	0.002	0.004	0.001	3168	1570
Traffic Signalization/Signage/Striping/Painting	0.01	0.01	0.03	0.07	0.00	0.00	21	0.001	0.002	0.001	0.001	1715	1477
Other Operation	0.00	0.00	0.00	0.00	0.00	0.00	1	0.000	0.000	0.000	0.000	57	0
Total	0.46	0.43	2.02	2.78	0.43	0.22	548.94	0.018	0.029	0.032	0.014	46163	24041

Appendix H – Response to Comments

South Coast Air Quality Management District



Coast 21865 Copley Drive, Diamond Bar, CA 91765-4178 MD (909) 396-2000 · www.aqmd.gov

SENT VIA E-MAIL AND USPS:

D12.SR133OperationsProject@dot.ca.gov
Bahar Heydari, Associate Environmental Planner
California Department of Transportation, District 12
Environmental Analysis Division
1750 East 4th Street, Suite 100
Santa Ana, CA 92705

February 4, 2020

Mitigated Negative Declaration (MND) for the State Route 133 Operational Improvements Project

The South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. The following comments are meant as guidance for the Lead Agency and should be incorporated into the Final MND.

South Coast AQMD Staff's Summary of Project Description

The Lead Agency proposes to build a one-mile auxiliary lane on State Route 133 (SR-133) between the SR-133 and Interstate 405 (I-405) connector [Post Mile (PM) 8.3] and Irvine Center Drive (PM 9.3) (Proposed Project). Construction of the Proposed Project is expected to take no more than three years. Based on a review of Figure 1-1: *Project Location Map*, in the MND² and aerial photographs, South Coast AQMD staff found that sensitive receptors such as residential uses are located adjacent to the Proposed Project.

A-1

Summary of South Coast AQMD Staff's Comments on the Air Quality Analysis

In the Air Quality Analysis Section, the Lead Agency quantified the Proposed Project's construction emissions. However, the Lead Agency did not conduct a localized construction air quality impact analysis or a mobile source Health Risk Assessment (HRA) analysis. Additionally, the Lead Agency did not compare the Proposed Project's emissions from the build alternative to South Coast AQMD's air quality CEQA significance thresholds to determine the level of significance for the Proposed Project's air quality impacts. Detailed comments are included in the attachment. The attachment also includes a list of recommended mitigation measures that the Lead Agency should include in the Final MND to further reduce the Proposed Project's construction air quality impacts on nearby residents.

A-2

Conclusion

Pursuant to CEQA Guidelines Section 15074, prior to approving the Proposed Project, the Lead Agency shall consider the MND for adoption together with any comments received during the public review process. Please provide South Coast AQMD with written responses to all comments contained herein prior to the adoption of the Final MND. When responding to issues raised in the comments, responses should provide sufficient details giving reasons why specific comments and suggestions are not accepted. There should be good faith, reasoned analysis in response. Conclusory statements unsupported by factual information do not facilitate the purpose and goal of CEQA on public disclosure and are not meaningful, informative, or useful to decision makers and the public who are interested in the Proposed Project. Further, when the Lead Agency makes the finding that the additional recommended mitigation measures are not feasible, the Lead Agency should describe the specific reasons supported by substantial evidence for rejecting them in the Final MND (CEQA Guidelines Sections 15070 and 15074.1).

7A-3

¹ MND. Page 1-38.

² Ibid. Page 1-3.

February 4, 2020

South Coast AQMD staff is available to work with the Lead Agency to address any air quality questions that may arise from this comment letter. Please contact Margaret Isied, Assistant Air Quality Specialist, at misied@aqmd.gov or (909) 396-2543, should you have any questions.

Sincerely,

Lijin Sun

Lijin Sun, J.D. Program Supervisor, CEQA IGR

Planning, Rule Development & Area Sources

Attachment LS:MI ORC200107-02 Control Number

February 4, 2020

ATTACHMENT

1. Air Quality CEQA Thresholds of Significance

While CEQA permits a Lead Agency to apply appropriate thresholds to determine the level of significance, the Lead Agency may not apply thresholds in a manner that precludes consideration of substantial evidence demonstrating that there may be a significant effect on the environment. Evaluation of air quality impacts, unlike some other impact areas, easily lends itself to quantification. Not only does quantification make it easier for the public and decision-makers to understand the breadth and depth of the potential air quality impacts, but it also facilitates the identification of mitigation measures required to reduce any significant adverse air quality impacts. South Coast AQMD's CEQA thresholds of significance for air quality provide a clear quantitative benchmark to determine the significance of a project's air quality impacts. Therefore, for most projects within the South Coast Air Basin, South Coast AQMD's air quality CEQA thresholds of significance for construction and operation3 are used to determine the level of significance for a project's air quality

The Lead Agency quantified the maximum construction and operational emissions for the Proposed Project's build alternative in pounds per day4 but did not compare those emissions to South Coast AQMD's regional air quality CEQA significance thresholds to determine the level of significance for the Proposed Project's construction and operational air quality impacts⁵. Using South Coast AQMD's CEQA significance thresholds would clearly identify whether the build alternative would result in significant air quality impacts under CEQA, disclose the magnitude of the impacts, facilitate the identification of feasible mitigation measures and Project alternatives, and evaluate the level of impacts before and after mitigation measures. Therefore, South Coast AQMD staff recommends that the Lead Agency compare the emissions to South Coast AQMD's regional air quality CEQA significance thresholds in the Final MND to determine the level of significance for the Proposed Project's air quality impacts.

2. Localized Construction Air Quality Impact Analysis

Based on a review of Figure 1-1: Project Location Map, in the MND6 and aerial photographs, South Coast AQMD staff found that existing residential uses are located approximately 260 feet south of the Proposed Project. However, the Lead Agency did not analyze the Proposed Project's localized air quality impacts in the MND. Therefore, South Coast AQMD staff recommends that the Lead Agency quantify the Proposed Project's localized emissions from construction activities and disclose them in the Final MND to ensure that any nearby sensitive receptors are not adversely affected by emissions from construction activities that are occurring in close proximity. South Coast AQMD's guidance for performing a localized air quality impact analysis is available on South Coast AQMD website⁷.

3. Mobile Source Health Risk Assessment Analysis

As stated above, sensitive receptors are located in close proximity to the Proposed Project. In general, a transportation project that adds a lane increases freeway capacity and generates or attracts new or additional vehicular trips, which leads to increases in criteria pollutants and air toxics emissions. It can also lead to more disperse land use development, which in turn leads to additional vehicle miles

traveled and increases in criteria pollutants and air toxics emissions. The California Air Resources

6 MND. Page 1-3.

3

³South Coast AQMD. March 2015. South Coast AQMD Air Quality Significance Thresholds. Accessed at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

MND. Revised Air Quality Report. Table 4.1; Page 45. Table 4.2; Page 47.

South Coast AQMD. Localized Significance Thresholds. Accessed at: http://www.aqmd.gov/home/regulations/ceqa/air-qualityanalysis-handbook/localized-significance-thresholds.

February 4, 2020

Board (CARB) has identified diesel particulate matter (DPM) as a toxic air contaminant based on its carcinogenic effects8. Therefore, South Coast AQMD staff recommends that the Lead Agency conduct a mobile source health risk assessment analysis9 in the Final MND to disclose the potential health risks to residents from vehicles including DPM-emitting diesel-fueled vehicles that will use the Proposed Project.

Recommended Air Quality Mitigation Measures

CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize or eliminate any significant adverse impacts. South Coast AQMD staffrecommends the following mitigation measures be incorporated in the Final MND to further reduce the Proposed Project's emissions, particularly from NOx and particulate matter, during the construction phase, and minimize construction air quality impacts on nearby sensitive receptors.

Require the use of zero emissions (ZE) or near-zero emissions (NZE) heavy-duty, on-road vehicles during construction, such as trucks with natural gas engines that meet the CARB adopted optional NOx emission standard of 0.02 grams per brake horsepower-hour (g/bhp-hr). At a minimum, require that operators of heavy-duty trucks visiting the Proposed Project during construction commit to using 2010 model year¹⁰ or newer engines that meet CARB's 2010 engine emission standards of 0.01 g/bhp-hr for particulate matter (PM) and 0.20 g/bhp-hr of NOx emissions or newer, cleaner trucks. Include analyses to evaluate and identify sufficient power available for ZE trucks and supportive infrastructure in the Energy and Utilities and Services Systems Sections of the Final MND, where appropriate.

To monitor and ensure ZE, NZE, or 2010 model year trucks are used at the Proposed Projectduring construction, the Lead Agency should require that operators maintain records of all trucks associated with the Proposed Project's construction activities, and make these records available to the Lead Agency upon request. The records will serve as evidence to prove that each truck called to the Proposed Project during construction meets the minimum 2010 model year engine emission standards. Alternatively, the Lead Agency should require periodic reporting and provision of written records by truck operators, and conduct regular inspections of the records to the maximum extent feasible and practicable.

Require the use of off-road, diesel-powered construction equipment that meets or exceeds the CARB and U.S. Environmental Protection Agency (USEPA) Tier 4 Final off-road emissions standards for equipment rated at 50 horsepower or greater during construction of the Proposed Project. Such equipment will be outfitted with Best Available Control Technology (BACT) devices including a CARB certified Level 3 Diesel Particulate Filter (DPFs). Level 3 DPFs are capable of achieving at least 85 percent reduction in particulate matter emissions¹¹. A list of CARB verified DPFs are available on the CARB website¹².

4

⁸ CARB. August 27, 1998. Resolution 98-35. Accessed at: http://www.arb.ca.gov/regact/diesltac/diesltac.htm.
9 South Coast AQMD. "Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis." Accessed at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis- handbook/mobile-source-toxics-analysis.

¹⁰ CARB adopted the statewide On-Road Truck and Bus Regulation in 2010. The Regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter filter requirements beginning January 1, 2012. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent. More information on the CARB's Truck and Bus Regulations is available here: https://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm.

¹¹CARB. November 16-17, 2004. Diesel Off-Road Equipment Measure Workshop. Page 17. https://www.arb.ca.gov/msprog/ordiesel/presentations/nov16-04_workshop.pdf.
¹² Ibid. Page 18.

February 4, 2020

To ensure that Tier 4 Final construction equipment or better would be used during the Proposed-Project's construction, South Coast AQMD staff recommends that the Lead Agency include this requirement in applicable bid documents, purchase orders, and contracts. Successful contractor(s) must demonstrate the ability to supply the compliant construction equipment for use prior to any ground disturbing and construction activities. A copy of each unit's certification or model year specification and CARB or South Coast AQMD operating permit (if applicable) shall be available upon request at the time of mobilization of each applicable unit of equipment. Additionally, the Lead Agency should require periodic reporting and provision of written construction documents by construction contractor(s) to ensure compliance, and conduct regularinspections to the maximum extent feasible to ensure compliance.

A-7-4

In the event that construction equipment cannot meet the Tier 4 Final engine certification, the Project representative or contractor must demonstrate through future study with written findings supported by substantial evidence that is approved by the Lead Agency before using other technologies/strategies. Alternative applicable strategies may include, but would not be limited to, construction equipment with Tier 4 Interim emission standards, reduction in the number and/or horsepower rating of construction equipment, and/or limiting construction phases occurring simultaneously.

A-7-5

c) Maintain vehicle and equipment maintenance records for the construction portion of the Proposed Project. All construction vehicles must be maintained in compliance with the manufacturer's recommended maintenance schedule. All maintenance records shall remain on-site for a period of at least two years from completion of construction.

A-7-6

d) Encourage construction contractors to apply for South Coast AQMD "SOON" funds. The "SOON" program provides funds to applicable fleets for the purchase of commercially-available low-emission heavy-duty engines to achieve near-term reduction of NOx emissions from in-use off-road diesel vehicles. More information on this program can be found at South Coast AQMD's website: http://www.aqmd.gov/home/programs/business/business-detail?title=off-road-diesel-engines.

A-7-7

e) Minimize idling of all construction off-road diesel vehicles to five minutes or less. This is A-7-8 consistent with the CARB's idling policy¹³.

¹³CARB. June 2009. Written Idling Policy Guidelines. Accessed https://www.arb.ca.gov/msprog/ordiesel/guidance/writtenidlingguide.pdf.

General response to comments from SCAQMD (Air Quality)

SCAQMD Comments

Summary of South Coast AQMD Staff's Comments on the Air Quality Analysis In the Air Quality Analysis Section, the Lead Agency quantified the Proposed Project's construction emissions. However, the Lead Agency did not conduct a localized construction air quality impact analysis or a mobile source Health Risk Assessment (HRA) analysis. Additionally, the Lead Agency did not compare the Proposed Project's emissions from the build alternative to South Coast AQMD's air quality CEQA significance thresholds to determine the level of significance for the Proposed Project's air quality impacts. Detailed comments are included in the attachment. The attachment also includes a list of recommended mitigation measures that the Lead Agency should include in the Final MND to further reduce the Proposed Project's construction air quality impacts on nearby residents.

Response:

The comment requests that the quantification of air quality impacts from the proposed construction activities be compared with the SCAQMD thresholds of significance. According to California Public Resources Code (PRC) Section 21082, CEQA provides lead agencies with general authority to adopt criteria for determining whether a given impact is significant. As a result, the analysis for the proposed project followed the guidance within the chapter 11 of Caltrans Standard Environmental Reference (SER) for temporary construction activities.

Health risk assessment for the operational emission was not conducted. The Transportation Conformity Working Group (TCWG), which includes representatives from the USEPA, the FHWA, the Federal Transit Administration (FTA), CARB, Caltrans, Southern California Association of Governments (SCAG), South Coast Air Quality Management District (SCAQMD), the Orange County Transportation Authority (OCTA), and other stakeholders, has determined that the project is not a project of air quality concern (POAQC). The Interagency Consultation at the TCWG meeting concurred that the Build Alternative meet the requirements of the 40 CFR 93.116. A detailed Health Risk Assessment (HRA) was not completed and is not necessary.

According to an FHWA analysis, even if vehicle activity (vehicle miles traveled) increases by 45 percent from 2010 to 2050 as forecast, a combined reduction of 91 percent in the total annual emission rate for the priority Mobile Source Air Toxics (MSAT) emissions is projected for the same time period. A 2007 USEPA rule requires controls that will dramatically decrease MSAT emissions through cleaner fuels and cleaner engines. This will contribute to the decrease expected in MSAT emissions, despite a possible increase in vehicle activity. Carbon monoxide analysis was conducted for the build alternative, no adverse effect was determined.

Significance of air quality impact of the build alternative was also conducted following the Interim Guidance: Determining CEQA Significance for Greenhouse Gas Emissions for Projects on the State Highway system, which indicates there is less than significant impact of the Build Alternative.

Impact of construction activities will not be significant. According to 40 CFR 93.123(C) (5) construction activities that last for less than 5 years are considered temporary. In this project the construction to last approximately 16 months, no construction activities are anticipated to last more than 5 years at any individual site. CO, PM10 and PM2.5 hot-spot analyses are not required to consider construction-related activities which cause temporary increases in emissions. However, these temporary impacts would be addressed through implementation of Project Features PF-AQ-1, section 14 of the Caltrans standard specifications specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations. This measure is inclusive of the applicable laws and regulations set forth by United States Environmental Protection Agency (USEPA), California Air Resources Board (CARB) and SCAQMD.

Comment	Response
A-1	Please Refer to the General Response to comment.
A-2	Please Refer to the General Response to comment.
A-3	SCAQMD's request for written responses to comments prior to adoption of the Final Mitigated Negative Declaration (MND) is acknowledged. The written responses included herein the MND will be sent to each commenting agency prior to finalization of the MND. Each comment received during the public review period has been reviewed and responded to in good faith according to CEQA and the CEQA guidance on responding to public comments.
A-4	Please Refer to the General Response to comment.
A-5	Please Refer to the General Response to comment.
A-6	Please Refer to the General Response to comment.
A-7	
A-7-1	Please refer to PF-AQ-1.
A-7-2	Please refer to PF-AQ-1.
A-7-3	Please refer to PF-AQ-1.
A-7-4	Please refer to PF-AQ-1.
A-7-5	Please refer to PF-AQ-1.
A-7-6	Please refer to PF-AQ-1.
A-7-7	Please refer to PF-AQ-1.
A-7-8	Please refer to PF-AQ-1 of the MND. These temporary impacts would be addressed through implementation of Project Features PF-AQ-1, section 14 of the Caltrans standard specifications specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations. This measure is inclusive of the applicable laws and regulations set forth by United States Environmental Protection Agency (USEPA), California Air Resources Board (CARB) and SCAQMD.

California Department of Fish and Wildlife



State of California — Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
South Coast Region
3883 Ruffin Road
San Diego, CA 92123
(858) 487-4201
www.wildlife.ca.gov

GAVIN NEWSOM, Governor CHARLTON H. BONHAM, Director



February 4, 2020

Bahar Heydari, Associate Environmental Planner California Department of Transportation Division of Environmental Analysis 1750 East 4th Street, Suite 100 Santa Ana, CA 92795

Subject: Comments on the Initial Study with Proposed Mitigated Negative Declaration for the State Route 133 Operational Improvements Project (SCH# 2020010158)

Dear Ms. Heydari:

The Department of Fish and Wildlife (Department) has reviewed the Initial Study and proposed Mitigated Negative Declaration (IS/MND) for the State Route 133 (SR-133) Operational Improvements Project (Project) dated January 2020. The comments provided herein are based on the information provided in the IS/MND; the Natural Environment Study (Minimal Impacts) [NESMI] dated December 31, 2019; two Department site visits dated September 24, 2019, and October 23, 2019; and our knowledge of sensitive and declining habitats.

The Department is a Trustee Agency and a Responsible Agency pursuant to the California Environmental Quality Act (§§ 15386 and 15281, respectively) and is responsible for ensuring appropriate conservation of the state's biological resources, including rare, threatened, and endangered plant and animal species, pursuant to the California Endangered Species Act (CESA; Fish and Game Code § 2050 et seq.) and Fish and Game Code Section 1600 et seq.

The Project would develop operational improvements on southbound (SB) SR-133 from the southbound Interstate (I)-5/southbound SR-133 connector to southbound SR-133/northbound I-405 connector. The Project includes adding an auxiliary lane on SB SR-133 from SB I-5 connector to 300 feet south of San Diego Creek and adding a second travel lane on the SB SR-133/NB I-405 connector. The Project would also widen the San Diego Creek Left Bridge and San Diego Creek off-ramp bridge and replace rock slope protection (RSP) six feet below the top of the pile cap between the piers/abutments footings of both bridges. The RSP would extend 40 feet upstream and 10 feet downstream of the bridges. These are two of a series of three bridges for SR-133 that cross San Diego Creek immediately north of the I-405 connector.

San Diego Creek is a tributary to the Upper Newport Bay Ecological Reserve, which outlets to the Pacific Ocean. The Biological Study Area (BSA) is primarily heavily urbanized. However, the Project may result in temporary and permanent impacts to San Diego Creek, Cooper's hawk (Accipiter cooperii), migratory and non-game birds, special status bat species, and federally endangered southern California steelhead (Oncorhynchus mykiss) habitat.

The Department provides the following specific comments and recommendations to assist Caltrans in avoiding and/or minimizing potential impacts to sensitive wildlife and vegetation communities identified in the IS/MND:

 The NESMI section "Agency Coordination and Professional Contacts" includes a September 4, 2019 site visit with a Department representative. However, the document

]B-1

Conserving California's Wildlife Since 1870

Bahar Heydari, Associate Environmental Planner California Department of Transportation February 4, 2020 Page 2 of 4

does not record a second site visit which occurred on October 23, 2019, with Department staff including the South Coast Region's anadromous fisheries biologist, as further discussed below in item 3. The primary objective of this second visit was to look at crossings on San Diego Creek for a different upcoming project on the I-405. However, while there, staff also inspected the SR-133 bridge crossings.

The Department recommends the Final IS/MND include the second site visit and a discussion of the Department's observations and recommendations that were made therein.

 According to the NESMI, Caltrans obtained historic records of steelhead within San Diego Creek from National Marine Fisheries Service via email. However, this information is not included in the IS/MND and the records are not discussed or presented as part of the Environmental Document.

The Department recommends the Final IS/MND includes a discussion of the records request and the information provided.

3. As noted in the IS/MND, "Caltrans is required by Senate Bill (SB) 857 to assess and remediate barriers to fish passage at stream crossings along the State Highway System that currently or historically supported anadromous fish" (page 2-7). The document concludes that, "...due to extensive modification and lack of historic evidence of anadromous fish passages within the creek, this project isn't expected to affect fish passage within the BSA[.]" On the Department's October 23, 2019, site visit, staff inspected San Diego Creek, including bridge structures at this location and immediately upstream. The Department's expert staff determined that, although flood control management in the applicable stream segment resulted in a heavily manipulated stream with a uniform streambed profile, the infrastructure does not constitute a compléte barrier to steelhead.

The Department determined and communicated to Caltrans that this creek should be considered a historic steelhead stream. This is the Department's expert opinion, based on: a) on the proximity to Upper Newport Bay; b) the presence of freshwater clam shells of different age classes, indicating persistence of water in the system; c) the historic characteristics of the San Diego Creek system; and, d) suitable habitat available upstream. Additionally, historically, the Newport estuary was connected to the Santa Ana River, which is a National Marine Fisheries Service Core 1 stream, and therefore it is highly likely that steelhead utilized San Diego Creek.

Ideas to improve fish passage were discussed in the field on the October 23, 2019, site visit. The existing bridge is supported by pier walls that appear to run the length of all three bridges. The Department suggested that, when extending the bridge, rather than extending the pier walls, which contribute to sheer velocity and scour, Caltrans should consider an alternate column-shaped support. Additionally, the Department discussed creating a low-flow channel with a thatweg in one of the pier bays. To minimize the potential for additional fish barriers at the San Diego Creek bridges, the Department recommends that Caltrans work closely and early with the Department to develop fish passage-compliant designs for the widening of the bridge and revetment of the piers and footings.

B: -2

B = 2

B-3

Bahar Heydari, Associate Environmental Planner California Department of Transportation February 4, 2020 Page 3 of 4

- 4. The IS/MND states that suitable bat roosting habitat exists within the BSA, although no evidence of bat presence was observed during baseline surveys (page 2-9). The Department concurs with minimization measures to protect bats from impact if present prior to construction. The Department recommends that the measures be revised to include the following:
 - a. specify the assessment and surveys will include a 500-foot buffer area around the project footprint;
 - the assessment and surveys should be conducted by biologists with expertise in handling, surveying, and identifying southern California bat species, especially those associated with highway infrastructure;
 - report findings to the Department prior to implementing any related measures; and,
 - d. If bats are found, develop a bat mitigation and monitoring plan for Department approval prior to commencing construction.
- 5. The final paragraph of the Jurisdictional Delineation Report indicates that Drainages 1, 2, and 3, although they have bed and bank features, are not subject to Fish and Game Code section 1600 et al. because they do not support aquatic life, riparian vegetation, or stream-dependent terrestrial wildlife. Caltrans cites the 1994 Field Guide to Lake and Streambed Alteration Agreement. This determination is incorrect because that guidance is obsolete and cannot be applied to determine if a stream is subject to Fish and Game Code section 1600 et al.

The Department recommends Caltrans reconsider the applicability of Fish and Game Code section 1600 et al. by considering the most current publication of the Code and applying the language in section 1602(a): "[a]n entity shall not substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake..." Please note that this language does not include assessment of species or habitats.

Thank you for the opportunity to comment on the IS/MND. The Department requests an opportunity to review and comment on any response that Caltrans has to our comments. If you have any questions regarding this letter, please contact Simona Altman at (858) 467-4283 or email simona altman@wildlife.ca.gov.

Gail Sevrens

Sincerely

Environmental Program Manager

South Coast Region

Bahar Heydari, Associate Environmental Planner California Department of Transportation February 4, 2020 Page 4 of 4

ec: <u>California Department of Fish and Wildlife</u> Simona Altman Rick Macala Mary Larson

> <u>California Department of Transportation</u> Kedest Ketsela, <u>kedest ketsela@dot.ca.gov</u>

California Department of Fish and Wildlife, e-mail correspondence to be included per CDFW request

Jessica Adams - NOAA Federal From: To: Ketsela, Kedest@DOT

Re: Historic Record of Steelhead within San Diego Creek Subject:

Thursday, May 16, 2019 9:35:54 AM Date:

Attachments: SSRP Orange.pdf

Kedest,

NMFS does not possess any data that the public does not have access to. In my quick literature search, I did find the attached which states the status of steelhead as "unknown" for San Diego Creek. Without actual data, presence/absence cannot be confirmed or denied.

Thanks, Jess

Jess Adams

Fish Biologist NOAA Fisheries West Coast Region U.S. Department of Commerce 501 W. Ocean Blvd., Suite 4200 Long Beach, CA 90802 Office: (562) 980-4013

iessica.adams@noaa.gov

On Thu, May 16, 2019 at 9:00 AM Ketsela, Kedest@DOT < kedest.ketsela@dot.ca.gov> wrote:

Good Morning Jessica,

Thank you for the quick response. If I am correct, you are referring to data your agency doesn't possess which may indicate the presence of former spawning and rearing habitat for the species within the creek. Is that correct?

Under section 7 consultation, in addition to evaluating the project sites, we are expected to use the best available data in our document that were used in the implementation of Endangered Species Act. It is our understanding that the absence of your historic data is based on evaluation of the creek prior to and after the species was listed as well as historic data received from individual, local, and regulatory agencies. We also evaluated California Department of Fish and Wildlife CNDDB and this data indicates absence of the species within, upstream, and downstream of the project along the San Diego creek. Based on available data from your agency and California Fish and wildlife as of today, we determined absence of the species within the

creek.
Thanks
Kedest Ketsela
Caltrans D-12
(657) 328-6134
From: Jessica Adams - NOAA Federal < <u>jessica.adams@noaa.gov</u> > Sent: Wednesday, May 15, 2019 2:13 PM To: Ketsela, Kedest@DOT < <u>kedest.ketsela@dot.ca.gov</u> > Subject: Re: Historic Record of Steelhead within San Diego Creek
Kedest,
It means that the absence of data does not indicate proof of absence.
Thanks,
Jess
Jess Adams
Fish Biologist
NOAA Fisheries West Coast Region
U.S. Department of Commerce
501 W. Ocean Blvd., Suite 4200

Long Beach, CA 90802

Office: (562) 980-4013

jessica.adams@noaa.gov

On Wed, May 15, 2019 at 1:42 PM Ketsela, Kedest@DOT <<u>kedest.ketsela@dot.ca.gov</u>> wrote:

Hi Jessica,

Thank you for the response. However, I am not clear what you mean by "however, the possibility that it was former spawning and rearing habitat for the species" Could you please elaborate that in relations with the NMFS regulations for the species. I don't want to miss interpret it.

Thanks

Kedest Ketsela

Caltrans D-12

(657) 328-6134

From: Jessica Adams - NOAA Federal < jessica.adams@noaa.gov >

Sent: Monday, May 13, 2019 8:17 AM

To: Ketsela, Kedest@DOT < kedest.ketsela@dot.ca.gov >

Subject: Re: Historic Record of Steelhead within San Diego Creek

Kedest,

NMFS is not familiar with an recent observations of southern California steelhead (*Oncorhynchus mykiss*) in San Diego Creek, though the creek is within the range of the Distinct Population Segment (DPS) of the species. As for historical use of the creek,

NMFS is not aware of any records verifying presence of steelhead in the creek, though that does not exclude the possibility that it was former spawning and rearing habitat for the species.

Thanks,

Jess

Jess Adams

Fish Biologist

NOAA Fisheries West Coast Region

U.S. Department of Commerce

501 W. Ocean Blvd., Suite 4200

Long Beach, CA 90802

Office: (562) 980-4013

jessica.adams@noaa.gov

On Thu, May 9, 2019 at 1:05 PM Ketsela, Kedest@DOT < kedest.ketsela@dot.ca.gov > wrote:

Hi Jessica,

I have a project on SR-133 over San Diego creek. The project will require modification to the San Diego creek. Could you please let me know if there has been any historic records of Steelhead presence within San Diego creek along the proposed project limit. Please see the attached project location map.

If you have any questions, please let me know.

Thanks

RESPONSES TO CA DEPT FISH AND WILDLIFE COMMENTS

Response to B-1:

The October 23rd, 2019 meeting with CDFW staff is included in the NES and in Chapter 4 of the FED.

Response to B-2

The email being referred to from National Marine Fisheries Service is attached in the NESMI and in Appendix I

Response to B-3

On Page 2-7 of the Draft IS/MND, the Department determines that the project would result in no effect to fish passage since the project will not change the current conditions of the stream even though there are no evidence of current and historic usage of anadromous fish at the San Diego creek within the project limit. In compliance with the SB 857, Caltrans is required to remediate barriers to fish passage at stream crossing along the State Highway System that are currently or historically supported anadromous fish. Based on the historic record obtained from NMFS and lack of evidence of anadromous fish including Steelhead within State Route 133 bridge (State Highway system) over Sand Diego creek, no anadromous fish was found. Enclosed is a correspondence email from NMFS. The width of the Off-Ramp Bridge Widening is approximately 14.5 feet. For this short width it is not feasible to have columns instead of pier walls. Considering the Seismic Design Criteria for balancing the stiffnesses and periods of the existing and the new structure, column option is not feasible. Pier walls are most suited for this bridge widening from construction standpoint as well. There is no structure work in the middle of San Diego Creek. As stated in above comment, the structure as well as the proposed widening within the project footprint does not constitute a completed barrier to anadromous fish.

Response to B-4 (B-4-1 through B-4-4)

B-4-1:

Due to limited construction activities and implementation of avoidance and minimization measures, the project isn't expected to impact suitable bat habitats other than the habitat found within the project direct and indirect impact area. If the project construction footprint expands, Caltrans will conduct additional field assessment to evaluate potential suitable habitat.

B-4-2:

Per avoidance and minimization measures included in the environmental document, the bat assessment and acoustic survey will be conducted by experience biologist.

B-4-3

Caltrans will submit pre-construction survey report to the Department of Fish and Wildlife.

B-4-4

If Bats found one year prior to construction, in addition to measures included in the environmental document, additional avoidance, minimization, and mitigation measures will be included prior to construction. If the project will result in unavoidable direct and indirect impacts to roosting bats, mitigation and monitoring plan will be prepared and submitted to the Department for approval prior to commencing construction.

B-5

Based on the CDFW clarification disclosed under this comment, the jurisdictional preliminary determination of Drainage 1, 2 and 3 has changes in the ED as follow: Drainage 1, 2, and 3 have bed and bank features and are subject to CDFW under Fish and Game code 1600.

Santa Ana Regional Water Quality Control Board





Santa Ana Regional Water Quality Control Board

February 6, 2020

Bahar Heydari Associate Environmental Planner Caltrans District 12 1750 East 4th Street, Suite 100 Santa Ana, CA 92705

Email D12.SR133OperationsProject@dot.ca.gov

MITIGATED NEGATIVE DECLARATION, STATE ROUTE 133 OPERATIONAL IMPROVEMENTS PROJECT, SR-133 BETWEEN INTERSTATE 405 AND INTERSTATE 5, IRVINE - CALIFORNIA DEPARTMENT OF TRANSPORTATION

Dear Mr. Heydari:

Staff of the Regional Water Quality Control Board, Santa Ana Region (Regional Board) has reviewed the Mitigated Negative Declaration (MND) for the State Route 133 Operational Improvements Project (Project) for the freeway segment in Irvine, located between Interstate 405 and Interstate 5, that crosses San Diego Creek. A new southbound auxiliary lane will be constructed, necessitating the widening of the San Diego Creek bridge with the extension of its pier foundations.

Regional Board staff recommends that the MND incorporate the following comments in order for the Project to best protect water quality standards (water quality objectives, beneficial uses and antidegradation policy), as defined in the Water Quality Control Plan for the Santa Ana River Basin (i.e., Basin Plan):

1. The extension of the pier foundations and likely diversions of San Diego Creek will require a Clean Water Act (CWA) Section 401 Water Quality Standards Certification (Certification) from our office, as noted on page 2-22. However, mitigation for excavations and other disturbances to 1.67 acres of non-wetland, non-vegetated waters of the U.S. (0.096 acres of permanent impacts) is not required by the MND (pages 2-7, 2-8), but we believe it must be proposed in the Certification application. Page 2-8 states that Project location in a Special Area Management Plan (SAMP) area allows the CWA Section 404 Permit to be subject to a streamlined permitting process created by the U.S. Army Corps of Engineers (USACE). We are concerned that the proposed Letter of Permission (LOP) under the SAMP process, which

W-1

WILLIAM RUH, CHAIR | HOPE SMYTHE, EXECUTIVE OFFICER

3737 Main St., Suite 500, Riverside, CA 92501 | www.waterboards.ca.gov/santaana

-2-

February 6, 2020

would fast-track the 404 Permit, may negate implementation of any mitigation that the Santa Ana Water Board requires.

W-I Cont

2. Although most excavations will be at shallow depth in the San Diego Creek streambed, new piers for the widening of the freeway bridge will extend to 50 feet below the ground surface and will likely encounter groundwater. The Water Quality discussion of the MND (p.1-9) had a typographical error citing Order No. R8-2007-0042 (for a development) to comply with dewatering discharges. Please have the MND reflect sampling, reporting, and other compliance requirements with Order No. R8-2019-0061, NPDES No. CAG918002, General Waste Discharge Requirements for Discharges to Surface Waters Resulting from De Minimus Discharges, Groundwater Dewatering Operations, and/or Groundwater Cleanup/ Remediation Operations at Sites within the Newport Bay Watershed. The Order includes Compliance Provisions for Total Maximum Daily Loads for Selenium in Freshwater for the Newport Bay Watershed in Orange County, California.

If you have any questions, please contact Glenn Robertson at (951) 782-3259 and <u>Glenn.Robertson@waterboards.ca.gov</u>, or me at (951) 782-4995 and <u>Terri.Reeder@waterboards.ca.gov</u>

Sincerely,

Terri S. Reeder, PG, CEG, CHG

Supervisor, Coastal Waters Planning and CEQA Section

Cc:

State Clearinghouse, Sacramento - State.clearinghouse@opr.ca.gov

Valerie Taylor and Mary Larson, California Department of Fish and Wildlife, Los Alamitos office – Valerie. Taylor@wildlife.ca.gov and Mary.Larson@wildlife.ca.gov

Drive H: Grobertson/Data/CEQA/CEQA Responses/Orange County/MIND, Route 133 Improvements Project, CalTrans, Irvine.docx

Response to comments received from RWQCB, Santa Ana letter dated February 4, 2020

Response to W-1

Response: It is the understanding of the Department that the above comments refer to 1.67 temporary impacts and 0.09 acres of permanent impacts to Non-wetland Waters of the US disclosed under section 2.4.1 (b) of the CEQA Checklist.

As stated under section 2.4.1 (C) and (F) of the CEQA Checklist, the project will not result in an impact to federally protected wetland and is located within SAMP. The Department concluded that no mitigation is required since the project won't impact wetland and is eligible for abbreviated Letter of Permission permitting procedures under SAMP.

Based on design refinements, the project will result in a total of 0.9 (previously 1.67 acres) acres of Corps non-wetland waters of the US. These temporary impacts will occur due to temporary equipment access and replacement of Rock Slope Protection (RSP) within San Diego Creek. As stated in the 2019 NESMI under chapter 5, Since the project will replace the same material (RSP), the impact associated with the replacement of RSP is considered as temporary. Upon completion of the construction, the temporary impact area will be restored to original conditions, therefore, no mitigation is required.

The project will result in 0.006 (previously 0.096 acres) acres of permanent impacts to Corps non-wetland waters of the US. In compliance with the Regional board request, Caltrans will replace permanent impacts to water of the US off-site at a minimum 1:1 ratio by purchasing riparian mitigation credits from the San Luis Rey or Soquel Canyon Mitigation Bank.

Response to W-2:

The comment refers to a "typographical error", however the reference to the dewatering permit in the MND was in effect at the time of the WQ tech study prepared for the project. The new dewatering permit referenced in the comment "Order No. R8-2019-0061" was approved in December 2019. The Environmental document had the following language and Project Feature (PF-

The Environmental document had the following language and Project Feature (PF-WQ-6):

Any discharges of groundwater to surface waters during construction will be subject to the General Waste Discharge Permit for Discharges to Surface Waters of Groundwater Resulting from Groundwater Dewatering Operations and/or Groundwater Cleanup Activities at Sites Within the San Diego Creek/Newport Bay Watershed Polluted by Petroleum Hydrocarbons, Solvents, Metals, and/ or Salts. (Order No. R8-2007-0042, NPDES No. CAG918002) and any subsequent updates to the permit at the time of construction.

The Environmental Document and the project feature both had the following statement (highlighted) that the project will implement any subsequent updates to the permit at the time of construction. As such, Caltrans will implement permit requirements to any subsequent updates to the permit at the time of construction.

City of Irvine



Community Development

cityofirvine.org

1 Civic Center Plaza, Irvine, CA 92606-5208

949-724-6000

February 5, 2020

Behar Heydari Associate Environmental Planner Caltrans District 12, Division of Environmental Analysis 1750 East 4th Street, Suite 100 Santa Ana, CA 92705

Subject:

Mitigated Negative Declaration (MND) for the California Department of Transportation (Caltrans) State Route (SR) 133 Operational Improvements Project

Dear Behar Heydari:

Staff is in receipt of an Initial Study and an MND for the Caltrans 133 Operational Improvements Project. The proposed project consists of constructing a new auxiliary lane on southbound SR-133 between SR-133/I-405 connector and Irvine Center Drive. City staff has reviewed the MND and has provided the enclosed comments. If you have any questions, you may contact me at 949-724-6364 or at inquiring any

Sincerely,

Justin Equina Associate Planner

ec: Kenvin I a

Kerwin Lau, Manager of Planning Services Marika Poynter, Principal Planner Lisa Thai, Supervising Transportation Analyst Melissa Dugan, Supervising Transportation Analyst Behar Heydari February 5, 2020 Page 2 of 2

Enclosure 1 City of Irvine Comments for Caltrans 133 Operational Improvements Project

General Comments:

- Please ensure the proposed improvements do not preclude a future San Diego Creek trail extension under SR-133. Currently, the trail terminates at SR-133 on the south side of the channel.
- Please continue to update the City on the project status (i.e., detours, design and construction schedule). The updates will allow the City to inform the community and elected officials about the project. Additionally, it will help City staff update the Irvine Transportation Analysis Model (the City's traffic forecasting model) to reflect the proposed project and phasing.

Appendix A

- On Page A-11, Figure 3 Irvine Parks Map, revise the location of the Sand Canyon trail. The map shows the trail to the west of the SR-133; however, it also continues under and to the east of the SR-133 (on the north side of the channel).
 Revise the trail location accordingly.
- On page A-23, under the de minimis determination, indicate the length of time the San Diego Creek Class I Trail will be closed.
 - The City respectfully requests to minimize the length of time of each trail closure, as the Irvine bikeways are an important component of the City's transportation network and the County's Regional Trail System. While the City does not recommend trail closures, we recognize the project's operational and safety benefits by reducing traffic levels on City streets.
- The City requests coordination with Caltrans and review of the detour routes based on Mitigation Measure PF-TRA-1 on page A-24.
 - The mitigation measure indicates that a Transportation Management Plan will be included, and specifies the detours and related noticing. However, the detour for the Creek Trail is not indicated.
- 6. In Table 1 Right of Way Requirements, it is unclear if the Fee column refers to fees associated with permanent acquisition or temporary construction easement. If it is for the temporary construction easement, replace "none" with "TBD."

SR-133 Operational Improvements Project Responses to Comments Received from the City of Irvine on the Initial Study/Section 4(f) De Minimis Analysis

I-1

The project limits are within existing State Right of way. Construction of the Build Alternative would only require Temporary Construction Easements (TCEs), which are temporary in nature and there would be no permanent changes to San Diego Creek Trail and surrounding areas when project is completed. The project also complies with Objective B-1 of the City of Irvine's General Plan Circulation Element. In an email exchange with Jaimee Bourgeois on February 11th, 2020, there is currently no funding for an extension of San Diego Bike Trail and no tentative schedule available. The operational improvement project plans to be in construction from 2022 through 2024, however this does not mean the San Diego Bike Trail would be impacted for the entire approximate length of 2 years; the trail would be impacted for much less time. The project is not anticipated therefore to interfere with a current alignment for an extension of a future San Diego Creek Trail extension. The Preferred Alternative would not impact this future facility.

I-2

Caltrans will coordinate with the City of Irvine during the Design phase to ensure collaborative communication among stakeholders. The purpose of these meetings will be to inform the City and its residents about the project's progress and any temporary/ and/or permanent impacts to the project location. This will become an added measure (Rec-1) to the Section 4(f) De Minimis Finding and Final Environmental Document.

I-3

Irvine Parks Map was retrieved from the City of Irvine's Interactive Park Map website on June 11, 2019. The San Diego Creek Trail is shown in the Section 4(f) as is when retrieved from the City of Irvine's website. However, Figure 3 of the Section 4(f) serves to identify parks in the vicinity. Please refer to Figure 1 of the Section 4(f) which identifies the San Diego Creek Trail as continuing eastward from SR-133. The Sand Canyon Trail, as indicated in Figure 1 of the Section 4(f) does not cross but is parallel to SR-133.

I-4

The duration of the project in construction will be approximately 2 years. The exact closure for the San Diego Creek trail will be determined during Design. Once the project goes into the Design Phase, information on detours and the Traffic Management Plan (TMP) will become available and Caltrans will coordinate with the City of Irvine to finalize a detour. Only access to the bike trail at the project location will be temporarily impacted; the entire trail will not be impacted.

I-5

The only trail that will be temporarily impacted is the San Diego Creek Trail. See response to Comment (I-4)

I-6

During the Design phase of the project, Caltrans will coordinate with the City of Irvine to ensure that all detours outlined in the TMP be approved and implemented accordingly. Caltrans will continue to keep the City informed of project development and coordinate directly with the City as needed. This will be included as Recreation-1 (Rec-1) in the Section 4(f) and the Environmental Commitment Record.

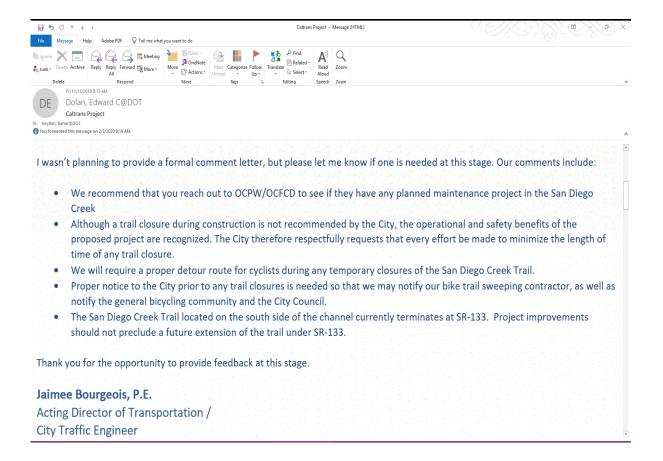
I-7

See response to I-4 and I-6. Also, please see attached map with exhibit of a potential detour.

I-8

The Fee Column has been removed entirely as per Caltrans Right of Way's direction as this is a Caltrans Project.

Additionally, City of Irvine provided comments to Caltrans on 11/15/2019 outside of the circulation period between January 6, 2020 to February 7, 2020.



- Caltrans will coordinate with OCPW and OCFCD during the Design Phase and Construction of the project, as well as for any planned maintenance related to the San Diego Creek. Future consultation, analysis, evaluation, coordination, and approvals will be performed during the final design phase of the project.
- Please see responses to comments I-4 and I-6 respectfully.
- Please see responses to comments I-4 and I-6 respectfully.
- Please see responses to comments I-4 and I-6 respectfully.
- Please see response to comment I-1.

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December 11, 2023

Prepared by: M. Lindsay / K. Welch Submitted by: F. Sanchez / P. Weghorst Approved by: Paul A. Cook

ACTION CALENDAR

DRAFT TERMS FOR SHORT-TERM EXCHANGE PROGRAM WITH SILVERTIP

SUMMARY:

Staff has prepared draft terms for a Short-Term Exchange Program that would allow Silvertip LLC, a landowner in Dudley Ridge Water District, to deliver water into storage at the IRWD Water Bank, with one-half of the water being transferred to IRWD. The recharge and recovery of Silvertip's water would occur after meeting the needs of IRWD and its other exchange partners. Staff recommends that the Board authorize the General Manager to execute an agreement with Silvertip based on the draft terms presented at the meeting, subject to substantive changes approved by the Supply Reliability Programs Committee, and special legal counsel.

BACKGROUND:

Early in 2023, Silvertip LLC purchased 2,100 acres of land in Dudley Ridge Water District with the right to use up to 16,300 acre-feet (AF) per year of State Water Project (SWP) Table A water. Silvertip is a private landowner with the goal of developing water sustainability benefits for its own farming operations and for others. It owns 5,500 acres of farmland in Kern County within Berenda Mesa, Lost Hills, and Wheeler Ridge Water Districts.

Silvertip anticipates having excess supplies and has expressed interest in storing water in the IRWD Water Bank. In October, staff met with Silvertip to discuss implementing a Short-Term Exchange Program that would allow Silvertip to deliver its share of Dudley Ridge SWP water into storage at the IRWD Water Bank on a 2-for-1 basis. Staff has developed draft terms for a proposed Short-Term Exchange Program with Silvertip as described below. The program terms are consistent with Dudley Ridge rules, regulations and policies that require Silvertip's share of the banked water to be returned for use in Dudley Ridge.

Short-Term Exchange Program Terms:

The proposed draft Short-Term Exchange Program terms would allow Silvertip to deliver up to 8,000 AF of its Dudley Ridge SWP water supplies to the IRWD Water Bank, with 50% of the water being transferred to IRWD through Metropolitan Water District. Delivery of Silvertip's water into storage would occur prior to the end of calendar year 2025 after the recharge needs of IRWD and its other exchange partners have been met. Silvertip's share of the water would be returned by the end of the 6th year either by in-ground transfer(s) to another banking project or by pumping wells at the IRWD Water Bank. The pumping of wells for Silvertip would occur after meeting the needs of IRWD and its other exchange partners. The short-term program would be implemented as a pilot that could lead to longer-term opportunities. The proposed draft terms are provided as Exhibit "A". Staff recommends that the Board authorize the General Manager to execute a Short-Term Exchange Program Agreement with Silvertip based on the draft terms.

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FISCAL IMPACTS:

IRWD and Silvertip would each be responsible for recharge and recovery costs associated with their respective share of the water delivered into storage under the Short-Term Exchange Program. Silvertip would pay for all fixed SWP costs associated with making the water available for recharge, including the water that will be transferred to IRWD.

ENVIRONMENTAL COMPLIANCE:

Final Environmental Impact Reports for the Strand Ranch and Stockdale Integrated Banking Project were prepared, certified, and approved in compliance with the California Environmental Quality Act (CEQA) of 1970 as amended, codified at California Public Resources Code Sections 21000 et. seq., and the State CEQA Guidelines in the Code of Regulations, Title 14, Division 6, Chapter 3. Rosedale, as lead agency, filed Notices of Determination for both the Strand Ranch and Stockdale Integrated Banking Projects with the County of Kern. IRWD, as a responsible agency, filed Notices of Determination with the County of Orange and with the County of Kern.

COMMITTEE STATUS:

This item was reviewed at the Supply Reliability Programs Committee meeting on December 6, 2023.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A SHORT-TERM EXCHANGE PROGRAM AGREEMENT WITH SILVERTIP BASED ON THE DRAFT TERMS PRESENTED, SUBJECT TO SUBSTANTIVE CHANGES APPROVED BY COMMITTEE AND SPECIAL LEGAL COUNSEL.

LIST OF EXHIBITS:

Exhibit "A" – Draft Terms for Short-term Exchange Program between Irvine Ranch Water District and Silvertip

Exhibit "A"

Draft Terms for a Short-Term Exchange Program Between Irvine Ranch Water District and Silvertip December 6, 2023

Parties	The Irvine Ranch Water District (IRWD) and Silvertip LLC (Silvertip)
Coordination with State Contractors and the State	Dudley Ridge Water District (DRWD) has a long-term water supply contract with the California Department of Water Resources (DWR). Through its subsidiary, Westside Agriculture, Silvertip is a landowner in DRWD with a water entitlement of 16,300 acre-feet (AF) of DRWD Table A. IRWD is also a landowner in DRWD with a water entitlement of 1,749 AF of DRWD Table A. Metropolitan Water District of Southern California has a long-term water supply contract with DWR. IRWD receives SWP supplies from Metropolitan through the Municipal Water District of Orange County (MWDOC), a member agency of Metropolitan. Kern County Water Agency (KCWA) also has a long-term water supply contract with DWR. Consent from KCWA is required to deliver DRWD water into storage in Kern County. IRWD and Silvertip would cooperate with DWR, DRWD, KCWA, and Metropolitan in preparing all necessary agreements to facilitate the Exchange Program. IRWD and Silvertip shall each be responsible for their own costs
	associated with coordination.
Program Term	The Program Term will last six years from the effective date of this Exchange Program Agreement. Delivery of Exchange Water into storage would be accomplished prior to the end of calendar year 2025. Upon mutual written agreement, the term may be extended.
IRWD's Water Bank	The IRWD Water Bank, located in Kern County, is owned by IRWD and operated by Rosedale-Rio Bravo Water Storage District. IRWD holds first- priority rights to the use of the recharge and recovery facilities, except when the Kern River Watermaster offers water to all takers willing to sign a notice/order or the Kern River Watermaster offers Kern River water to the California Aqueduct/Kern River Intertie. Under such conditions, Rosedale has first-priority right to the use of the recharge facilities.
Quantity	Through 2025, up to 8,000 AF of Exchange Water allocated to Silvertip may be delivered to Metropolitan at the IRWD Water Bank for temporary storage and later recovery of 50 percent (less losses) of such delivered water for Silvertip's use. Upon delivery into storage in the IRWD Water Bank, 50 percent of the Exchange Water, up to 4,000 AF (less losses), will be transferred to Metropolitan, on behalf of IRWD. (Losses are as described below.)

Exchange Water	Silvertip expects to supply the specified quantity of its DRWD SWP water supplies to the IRWD Water Bank by the end of 2025 (the Exchange Water) utilizing either Article 56(c) "carryover water" and/or calendar year 2024 or 2025 Table A water. The Parties would cooperate in scheduling the Exchange Water deliveries with deliveries associated with other IRWD deliveries and exchange programs. The recharge of Exchange Water would occur after the recharge needs of IRWD and its other exchange partners are met and are subject to available recharge capacity, available Cross Valley Canal (CVC) capacity, and terms of IRWD's Coordinated Operating, Water Storage, Exchange and Delivery Agreement with Metropolitan and the Municipal Water District of Orange County (Coordinated Agreement).
Return Water	Silvertip will either transfer in-ground its share of stored Exchange Water (less losses as described below) to a Silvertip Water Banking Project or IRWD will return Silvertip's share of the Exchange Water to Silvertip less losses by pumping wells at an annual rate of not more than one-third of the total amount delivered into storage by Silvertip (the Return Water). The pumping of wells to produce Return Water will occur subject to the use of the wells to meet the needs of IRWD and its other exchange partners. No later than May 1 of each year of this agreement, Silvertip shall provide IRWD with a schedule requesting delivery of the Return Water. The Parties will cooperate in scheduling the Return Water deliveries with deliveries associated with other IRWD banking and exchange programs. Silvertip shall be responsible for obtaining approvals of in-ground transfers and the delivery of Return Water to its lands in DRWD or in Kern County.
Delivery Points	The Point of Delivery (POD) for the Exchange Water under this program shall be at an IRWD Water Bank Turnout on the CVC. The POD for the Return Water shall be at an IRWD Water Bank Turn-in to the CVC. POD for Return Water transferred in-ground would be a designated Silvertip Banking Project. DRWD, on behalf of Silvertip, shall coordinate with KCWA for the conveyance of Exchange Water and Return Water utilizing the CVC. DRWD, on behalf of Silvertip, shall coordinate any required approval with the DWR for delivery of Silvertip's Exchange Water and Return Water.
Water Losses	Water banking losses shall be shared equally between IRWD and Silvertip (estimated to be between 11% and 15%). Silvertip and IRWD each may incur additional conveyance losses of 1% to 2% in the CVC for conveyance of each agency's share of the water, as measured and assessed by KCWA.
Recharge Costs	IRWD shall pay all costs assessed to IRWD by Rosedale for recharging water at the IRWD Water Bank. Silvertip would reimburse IRWD for 50 percent of these costs paid by IRWD upon delivery of Return Water to Silvertip. Costs are assessed by Rosedale consistent with that certain Water Banking and Exchange Program Agreement between Rosedale and IRWD dated January 13, 2009. These estimated costs may include Rosedale's administrative charge of about \$4 per AF, third party wheeling charges assessed by KCWA of \$5 per AF, CVC Standby, applicable actual CVC pumping and O&M costs of about \$15 per AF, and applicable fixed and variable O&M Water Bank costs of about \$3 per AF. Silvertip would be responsible for paying one-half of KCWA transaction request fee of \$3,000.

Recovery Costs	Silvertip shall pay any costs assessed by Rosedale for the extraction of Return Water utilizing capacities within the IRWD Water Bank including costs associated with groundwater pumping, Rosedale's administrative charge, other associated O&M costs, and any costs assessed by the KCWA. Silvertip shall be responsible for any costs associated with the use of CVC pumping or CVC capacity for the conveyance of the Return Water. Silvertip would be responsible for paying the KCWA transaction request fee of \$3,000 associated with delivery of its Return Water. Silvertip would be responsible for any costs assessed by KCWA for in-ground transfer of its Return Water.
	Silvertip shall be responsible for any costs assessed by Rosedale under the Long-Term Operations Plan for implementing provisions to prevent operation impacts. It is expected that banking projects, such as the IRWD Water Bank, may be required to contribute \$2.00 per AF for recovered water to a fund, which may be used to meet mitigation obligations.
SWP Variable OMP&R Costs	Metropolitan will pay the DWR Variable Operation, Maintenance, Power, and Replacement (OMP&R) charges estimated at \$30 per AF associated with the delivery of the Exchange Water from the Delta to IRWD POD consistent with the Coordinated Agreement.
	For delivery of Return Water to Silvertip POD, Silvertip will pay the DWR Variable OMP&R charges from the Delta to Silvertip's POD.
Water Quality	The quality of the Exchange Water and the Return Water will be limited as follows: if and to the extent that either party delivers water to and into the California Aqueduct, the quality of water shall meet the water quality standards established by DWR for pump-in to the California Aqueduct.
Environmental Compliance	Both parties shall comply with the California Environmental Quality Act (CEQA) and cooperate with one another with respect to CEQA compliance that may be required by DWR for the proposed Exchange Program. IRWD has already conducted environmental review under CEQA for the Strand and Stockdale Integrated Banking Projects that takes into consideration the delivery, storage and recovery of SWP water. Rosedale certified and IRWD approved the CEQA documents for the Strand and Stockdale Integrated Banking Projects.
	Corresponding Notices of Determination were filed by both Rosedale and IRWD. IRWD and Silvertip will share equally any additional costs associated with any further environmental review or permitting for delivering Silvertip water into storage, if deemed necessary. Both IRWD and Silvertip shall each be responsible for any other environmental review or permitting necessary to implement the Exchange Program within their own respective service areas.
Water Rights	It is expressly agreed, understood, and acknowledged by IRWD and Silvertip that any existing or future delivery of Exchange Water to the IRWD Water Bank by Silvertip will not result in or be considered a sale or transfer of Silvertip's contractual rights to SWP water or a sale or transfer of IRWD's ownership in the IRWD Water Bank.
General Expenses	Each Party shall be responsible for its own fees and expenses arising out of the negotiation and execution of the Exchange Program Agreement, obtaining necessary approvals, and the like.

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December 11, 2023

Prepared and

submitted by: L. Bonkowski

Approved by: Paul A. Cook

ACTION CALENDAR

No. 14 Election of Officers.docx

ELECTION OF OFFICERS FOR 2024

SUMMARY:

The Bylaws of the District provide that the President and Vice President shall be elected by the Board from among its members. The term of office of the President and Vice President is one year, or until the election and qualification of their successors. On December 12, 2022, Director McLaughlin was elected to the office of President and Director Reinhart was elected to the office of Vice President for 2023.

General Manager be appointed temporary Chairman to conduct the election of President. The temporary Chairman would open nominations, accept nominations which need not be seconded, accept a motion to close the nominations, and conduct the balloting by voice vote. The President would then conduct the election of the Vice President in a similar manner.
FISCAL IMPACTS:
None.
ENVIRONMENTAL COMPLIANCE:
Not applicable.
COMMITTEE STATUS:
Not applicable.
RECOMMENDATION:
THAT AN ELECTION BE CONDUCTED OF THE PRESIDENT AND VICE PRESIDENT OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT FOR 2024.
LIST OF EXHIBITS:
None.

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