

PROFESSIONAL CONSULTANT SERVICES AGREEMENT

MICHAEL K. NUNLEY & ASSOCIATES, INC., dba MKN

Design Engineering Services for Western Avenue and Garden Hills Way Wastewater Lift Stations (RFP No. 2351)

THIS PROFESSIONAL CONSULTANT SERVICES AGREEMENT (“Agreement”) is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ (“Effective Date”), by and between the CITY OF RIVERSIDE, a California charter city and municipal corporation (“City”), and MICHAEL K. NUNLEY & ASSOCIATES, INC., a California corporation, doing business as MKN (“Consultant”).

1. **Scope of Services.** City agrees to retain and does hereby retain Consultant and Consultant agrees to provide the services more particularly described in Exhibit “A,” “Scope of Services” (“Services”), attached hereto and incorporated herein by reference, in conjunction with Design Engineering Services for Western Avenue and Garden Hills Way Wastewater Lift Stations, RFP No. 2351 (“Project”).

2. **Term.** This Agreement shall be effective on the date first written above and shall remain in effect until December 31, 2027, unless otherwise terminated pursuant to the provisions herein.

3. **Compensation/Payment.** Consultant shall perform the Services under this Agreement for the total sum not to exceed Two Hundred Seventy-Three Thousand One Hundred Thirty-Four Dollars (\$273,134.00), payable in accordance with the terms set forth in Exhibit “B.” Said payment shall be made in accordance with City’s usual accounting procedures upon receipt and approval of an itemized invoice setting forth the services performed. The invoices shall be delivered to City at the address set forth in Section 4 hereof.

4. **Notices.** Any notices required to be given, hereunder shall be in writing and shall be personally served or given by mail. Any notice given by mail shall be deemed given when deposited in the United States Mail, certified and postage prepaid, addressed to the party to be served as follows:

To City

Public Works Department  
City of Riverside  
Attn: Elaine Radke  
3900 Main Street  
Riverside, CA 92522

To Consultant

Michael K. Nunley & Associates, Inc.  
dba MKN  
Attn: Ryan Gallagher  
P.O. Box 1604  
Arroyo Grande, CA 93420

5. **Prevailing Wage.** If applicable, Consultant and all subcontractors are required to pay the general prevailing wage rates of per diem wages and overtime and holiday wages determined by the Director of the Department of Industrial Relations under Section 1720 et seq.

of the California Labor Code and implemented by Resolution No. 13346 of the City Council of the City of Riverside. The Director's determination is available on-line at [www.dir.ca.gov/dlsr/DPreWageDetermination.htm](http://www.dir.ca.gov/dlsr/DPreWageDetermination.htm) and is referred to and made a part hereof; the wage rates therein ascertained, determined, and specified are referred to and made a part hereof as though fully set forth herein.

6. **Contract Administration.** A designee of the City will be appointed in writing by the City Manager or Department Director to administer this Agreement on behalf of City and shall be referred to herein as Contract Administrator.

7. **Standard of Performance.** While performing the Services, Consultant shall exercise the reasonable professional care and skill customarily exercised by reputable members of Consultant's profession practicing in the Metropolitan Southern California Area and shall use reasonable diligence and best judgment while exercising its professional skill and expertise.

8. **Personnel.** Consultant shall furnish all personnel necessary to perform the Services and shall be responsible for their performance and compensation. Consultant recognizes that the qualifications and experience of the personnel to be used are vital to professional and timely completion of the Services. The key personnel listed in Exhibit "C" attached hereto and incorporated herein by this reference and assigned to perform portions of the Services shall remain assigned through completion of the Services, unless otherwise mutually agreed by the parties in writing, or caused by hardship or resignation in which case substitutes shall be subject to City approval.

9. **Assignment and Subcontracting.** Neither party shall assign any right, interest, or obligation in or under this Agreement to any other entity without prior written consent of the other party. In any event, no assignment shall be made unless the assignee expressly assumes the obligations of assignor under this Agreement, in a writing satisfactory to the parties. Consultant acknowledges that any assignment may, at the City's sole discretion, require City Manager and/or City Council approval. Consultant shall not subcontract any portion of the work required by this Agreement without prior written approval by the responsible City Contract Administrator. Subcontracts, if any, shall contain a provision making them subject to all provisions stipulated in this Agreement, including without limitation, the insurance obligations set forth in Section 12. The Consultant acknowledges and agrees that the City is an intended beneficiary of any work performed by any subcontractor for purposes of establishing a duty of care between any subcontractor and the City.

10. **Independent Contractor.** In the performance of this Agreement, Consultant, and Consultant's employees, subcontractors and agents, shall act in an independent capacity as independent contractors, and not as officers or employees of the City of Riverside. Consultant acknowledges and agrees that the City has no obligation to pay or withhold state or federal taxes or to provide workers' compensation or unemployment insurance to Consultant, or to Consultant's employees, subcontractors and agents. Consultant, as an independent contractor, shall be responsible for any and all taxes that apply to Consultant as an employer.

## 11. Indemnification.

11.1 **Design Professional Defined.** For purposes of this Agreement, "Design Professional" includes the following:

- A. An individual licensed as an architect pursuant to Chapter 3 (commencing with Section 5500) of Division 3 of the Business and Professions Code, and a business entity offering architectural services in accordance with that chapter.
- B. An individual licensed as a landscape architect pursuant to Chapter 3.5 (commencing with Section 5615) of Division 3 of the Business and Professions Code, and a business entity offering landscape architectural services in accordance with that chapter.
- C. An individual registered as a professional engineer pursuant to Chapter 7 (commencing with Section 6700) of Division 3 of the Business and Professions Code, and a business entity offering professional engineering services in accordance with that chapter.
- D. An individual licensed as a professional land surveyor pursuant to Chapter 15 (commencing with Section 8700) of Division 3 of the Business and Professions Code, and a business entity offering professional land surveying services in accordance with that chapter.

11.2 **Defense Obligation For Design Professional Liability.** Consultant agrees, at its cost and expense, to promptly defend the City, and the City's employees, officers, managers, agents and council members (collectively the "Parties to be Defended") from and against any and all claims, allegations, lawsuits, arbitration proceedings, administrative proceedings, regulatory proceedings, or other legal proceedings to the extent the same arise out of, pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, or anyone employed by or working under the Consultant or for services rendered to the Consultant in the performance of the Agreement, notwithstanding that the City may have benefited from its work or services and whether or not caused in part by the negligence of an Indemnified Party. Consultant agrees to provide this defense immediately upon written notice from the City, and with well qualified, adequately insured and experienced legal counsel acceptable to City. Consultant will reimburse City for reasonable defense costs for claims arising out of Consultant's professional negligence based on the percentage of Consultant's liability. This obligation to defend as set forth herein is binding on the successors, assigns and heirs of Consultant and shall survive the termination of Consultant's Services under this Agreement.

11.3 **Indemnity For Design Professional Liability.** When the law establishes a professional standard of care for Consultant's services, to the fullest extent permitted by law, Consultant shall indemnify, protect and hold harmless the City and the City's employees, officers, managers, agents, and Council Members ("Indemnified Parties") from and against any and all claim for damage, charge, lawsuit, action, judicial, administrative, regulatory or arbitration proceeding, damage, cost, expense (including counsel and expert fees), judgment, civil fines and penalties, liabilities or losses of any kind or nature whatsoever to the extent the same arise out of,

pertain to, or relate to the negligence, recklessness or willful misconduct of Consultant, or anyone employed by or working under the Consultant or for services rendered to the Consultant in the performance of the Agreement, notwithstanding that the City may have benefited from its work or services and whether or not caused in part by the negligence of an Indemnified Party.

**11.4 Defense Obligation For Other Than Design Professional Liability.**

Consultant agrees, at its cost and expense, to promptly defend the City, and the City's employees, officers, managers, agents and council members (collectively the "Parties to be Defended") from and against any and all claims, allegations, lawsuits, arbitration proceedings, administrative proceedings, regulatory proceedings, or other legal proceedings which arise out of, or relate to, or are in any way connected with: 1) the Services, work, activities, operations, or duties of the Consultant, or of anyone employed by or working under the Consultant, or 2) any breach of the Agreement by the Consultant. This duty to defend shall apply whether or not such claims, allegations, lawsuits or proceedings have merit or are meritless, or which involve claims or allegations that any or all of the Parties to be Defended were actively, passively, or concurrently negligent, or which otherwise assert that the Parties to be Defended are responsible, in whole or in part, for any loss, damage or injury. Consultant agrees to provide this defense immediately upon written notice from the City, and with well qualified, adequately insured and experienced legal counsel acceptable to City. This obligation to defend as set forth herein is binding on the successors, assigns and heirs of Consultant and shall survive the termination of Consultant's Services under this Agreement.

**11.5 Indemnity For Other Than Design Professional Liability.**

Except as to the sole negligence or willful misconduct of the City, Consultant agrees to indemnify, protect and hold harmless the Indemnified Parties from and against any claim for damage, charge, lawsuit, action, judicial, administrative, regulatory or arbitration proceeding, damage, cost, expense (including counsel and expert fees), judgment, civil fine and penalties, liabilities or losses of any kind or nature whatsoever whether actual, threatened or alleged, which arise out of, pertain to, or relate to, or are a consequence of, or are attributable to, or are in any manner connected with the performance of the Services, work, activities, operations or duties of the Consultant, or anyone employed by or working under the Consultant or for services rendered to Consultant in the performance of this Agreement, notwithstanding that the City may have benefited from its work or services. This indemnification provision shall apply to any acts, omissions, negligence, recklessness, or willful misconduct, whether active or passive, on the part of the Consultant or anyone employed or working under the Consultant.

**12. Insurance.**

**12.1 General Provisions.**

Prior to the City's execution of this Agreement, Consultant shall provide satisfactory evidence of, and shall thereafter maintain during the term of this Agreement, such insurance policies and coverages in the types, limits, forms and ratings required herein. The rating and required insurance policies and coverages may be modified in writing by the City's Risk Manager or City Attorney, or a designee, unless such modification is prohibited by law.

12.1.1 **Limitations.** These minimum amounts of coverage shall not constitute any limitation or cap on Consultant's indemnification obligations under Section 11 hereof.

12.1.2 **Ratings.** Any insurance policy or coverage provided by Consultant or subcontractors as required by this Agreement shall be deemed inadequate and a material breach of this Agreement, unless such policy or coverage is issued by insurance companies authorized to transact insurance business in the State of California with a policy holder's rating of A or higher and a Financial Class of VII or higher.

12.1.3 **Cancellation.** The policies shall not be canceled unless thirty (30) days' prior written notification of intended cancellation has been given to City by certified or registered mail, postage prepaid.

12.1.4 **Adequacy.** The City, its officers, employees and agents make no representation that the types or limits of insurance specified to be carried by Consultant pursuant to this Agreement are adequate to protect Consultant. If Consultant believes that any required insurance coverage is inadequate, Consultant will obtain such additional insurance coverage as Consultant deems adequate, at Consultant's sole expense.

12.2 **Workers' Compensation Insurance.** By executing this Agreement, Consultant certifies that Consultant is aware of and will comply with Section 3700 of the Labor Code of the State of California requiring every employer to be insured against liability for workers' compensation, or to undertake self-insurance before commencing any of the work. Consultant shall carry the insurance or provide for self-insurance required by California law to protect said Consultant from claims under the Workers' Compensation Act. Prior to City's execution of this Agreement, Consultant shall file with City either 1) a certificate of insurance showing that such insurance is in effect, or that Consultant is self-insured for such coverage, or 2) a certified statement that Consultant has no employees, and acknowledging that if Consultant does employ any person, the necessary certificate of insurance will immediately be filed with City. Any certificate filed with City shall provide that City will be given ten (10) days' prior written notice before modification or cancellation thereof.

12.3 **Commercial General Liability and Automobile Insurance.** Prior to City's execution of this Agreement, Consultant shall obtain, and shall thereafter maintain during the term of this Agreement, commercial general liability insurance and automobile liability insurance as required to insure Consultant against damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from or which may concern operations by anyone directly or indirectly employed by, connected with, or acting for or on behalf of Consultant. The City, and its officers, employees and agents, shall be named as additional insureds under the Consultant's insurance policies.

12.3.1 Consultant's commercial general liability insurance policy shall cover both bodily injury (including death) and property damage (including, but not limited to, premises operations liability, products-completed operations liability, independent contractor's liability, personal injury liability, and contractual liability) in an amount not less than \$1,000,000 per occurrence and a general aggregate limit in the amount of not less than \$2,000,000.

12.3.2 Consultant's automobile liability policy shall cover both bodily injury and property damage in an amount not less than \$1,000,000 per occurrence and an aggregate limit of not less than \$1,000,000. All of Consultant's automobile and/or commercial general liability insurance policies shall cover all vehicles used in connection with Consultant's performance of this Agreement, which vehicles shall include, but are not limited to, Consultant owned vehicles, Consultant leased vehicles, Consultant's employee vehicles, non-Consultant owned vehicles and hired vehicles.

12.3.3 Prior to City's execution of this Agreement, copies of insurance policies or original certificates along with additional insured endorsements acceptable to the City evidencing the coverage required by this Agreement, for both commercial general and automobile liability insurance, shall be filed with City and shall include the City and its officers, employees and agents, as additional insureds. Said policies shall be in the usual form of commercial general and automobile liability insurance policies, but shall include the following provisions:

It is agreed that the City of Riverside, and its officers, employees and agents, are added as additional insureds under this policy, solely for work done by and on behalf of the named insured for the City of Riverside.

12.3.4 The insurance policy or policies shall also comply with the following provisions:

- a. The policy shall be endorsed to waive any right of subrogation against the City and its sub-consultants, employees, officers and agents for services performed under this Agreement.
- b. If the policy is written on a claims-made basis, the certificate should so specify and the policy must continue in force for one year after completion of the services. The retroactive date of coverage must also be listed.
- c. The policy shall specify that the insurance provided by Consultant will be considered primary and not contributory to any other insurance available to the City and Endorsement No. CG 20010413 shall be provided to the City.

12.4 **Errors and Omissions Insurance.** Prior to City's execution of this Agreement, Consultant shall obtain, and shall thereafter maintain during the term of this Agreement, errors and omissions professional liability insurance in the minimum amount of \$1,000,000 to protect the City from claims resulting from the Consultant's activities.

12.5 **Subcontractors' Insurance.** Consultant shall require all of its subcontractors to carry insurance, in an amount sufficient to cover the risk of injury, damage or loss that may be caused by the subcontractors' scope of work and activities provided in furtherance of this Agreement, including, but without limitation, the following coverages: Workers Compensation, Commercial General Liability, Errors and Omissions, and Automobile liability.

Upon City's request, Consultant shall provide City with satisfactory evidence that Subcontractors have obtained insurance policies and coverages required by this section.

13. **Business Tax.** Consultant understands that the Services performed under this Agreement constitutes doing business in the City of Riverside, and Consultant agrees that Consultant will register for and pay a business tax pursuant to Chapter 5.04 of the Riverside Municipal Code and keep such tax certificate current during the term of this Agreement.

14. **Time of Essence.** Time is of the essence for each and every provision of this Agreement.

15. **City's Right to Employ Other Consultants.** City reserves the right to employ other Consultants in connection with the Project. If the City is required to employ another consultant to complete Consultant's work, due to the failure of the Consultant to perform, or due to the breach of any of the provisions of this Agreement, the City reserves the right to seek reimbursement from Consultant.

16. **Accounting Records.** Consultant shall maintain complete and accurate records with respect to costs incurred under this Agreement. All such records shall be clearly identifiable. Consultant shall allow a representative of City during normal business hours to examine, audit, and make transcripts or copies of such records and any other documents created pursuant to this Agreement. Consultant shall allow inspection of all work, data, documents, proceedings, and activities related to the Agreement for a period of three (3) years from the date of final payment under this Agreement.

17. **Confidentiality.** All ideas, memoranda, specifications, plans, procedures, drawings, descriptions, computer program data, input record data, written information, and other materials either created by or provided to Consultant in connection with the performance of this Agreement shall be held confidential by Consultant, except as otherwise directed by City's Contract Administrator. Nothing furnished to Consultant which is otherwise known to the Consultant or is generally known, or has become known, to the related industry shall be deemed confidential. Consultant shall not use City's name or insignia, photographs of the Project, or any publicity pertaining to the Services or the Project in any magazine, trade paper, newspaper, television or radio production, website, or other similar medium without the prior written consent of the City.

18. **Ownership of Documents.** All reports, maps, drawings and other contract deliverables prepared under this Agreement by Consultant shall be and remain the property of City. Consultant shall not release to others information furnished by City without prior express written approval of City.

19. **Copyrights.** Consultant agrees that any work prepared for City which is eligible for copyright protection in the United States or elsewhere shall be a work made for hire. If any such work is deemed for any reason not to be a work made for hire, Consultant assigns all right, title and interest in the copyright in such work, and all extensions and renewals thereof, to City, and agrees to provide all assistance reasonably requested by City in the establishment, preservation and enforcement of its copyright in such work, such assistance to be provided at City's expense

but without any additional compensation to Consultant. Consultant agrees to waive all moral rights relating to the work developed or produced, including without limitation any and all rights of identification of authorship and any and all rights of approval, restriction or limitation on use or subsequent modifications.

20. **Conflict of Interest.** Consultant, for itself and on behalf of the individuals listed in Exhibit "C," represents and warrants that by the execution of this Agreement, they have no interest, present or contemplated, in the Project affected by the above-described Services. Consultant further warrants that neither Consultant, nor the individuals listed in Exhibit "C" have any real property, business interests or income interests that will be affected by this project or, alternatively, that Consultant will file with the City an affidavit disclosing any such interest.

21. **Solicitation.** Consultant warrants that Consultant has not employed or retained any person or agency to solicit or secure this Agreement, nor has it entered into any agreement or understanding for a commission, percentage, brokerage, or contingent fee to be paid to secure this Agreement. For breach of this warranty, City shall have the right to terminate this Agreement without liability and pay Consultant only for the value of work Consultant has actually performed, or, in its sole discretion, to deduct from the Agreement price or otherwise recover from Consultant the full amount of such commission, percentage, brokerage or commission fee. The remedies specified in this section shall be in addition to and not in lieu of those remedies otherwise specified in this Agreement.

22. **General Compliance With Laws.** Consultant shall keep fully informed of federal, state and local laws and ordinances and regulations which in any manner affect those employed by Consultant, or in any way affect the performance of services by Consultant pursuant to this Agreement. Consultant shall at all times observe and comply with all such laws, ordinances and regulations, and shall be solely responsible for any failure to comply with all applicable laws, ordinances and regulations. Consultant represents and warrants that Consultant has obtained all necessary licenses to perform the Scope of Services and that such licenses are in good standing. Consultant further represents and warrants that the services provided herein shall conform to all ordinances, policies and practices of the City of Riverside.

23. **Waiver.** No action or failure to act by the City shall constitute a waiver of any right or duty afforded City under this Agreement, nor shall any such action or failure to act constitute approval of or acquiescence in any breach thereunder, except as may be specifically, provided in this Agreement or as may be otherwise agreed in writing.

24. **Amendments.** This Agreement may be modified or amended only by a written agreement and/or change order executed by the Consultant and City.

25. **Termination.** City, by notifying Consultant in writing, shall have the right to terminate any or all of Consultant's services and work covered by this Agreement at any time. In the event of such termination, Consultant may submit Consultant's final written statement of the amount of Consultant's services as of the date of such termination based upon the ratio that the work completed bears to the total work required to make the report complete, subject to the City's rights under Sections 15 and 26 hereof. In ascertaining the work actually rendered through the



termination date, City shall consider completed work, work in progress and complete and incomplete reports and other documents only after delivered to City.

25.1 Other than as stated below, City shall give Consultant thirty (30) days' prior written notice prior to termination.

25.2 City may terminate this Agreement upon fifteen (15) days' written notice to Consultant, in the event:

25.2.1 Consultant substantially fails to perform or materially breaches the Agreement; or

25.2.2 City decides to abandon or postpone the Project.

26. **Offsets.** Consultant acknowledges and agrees that with respect to any business tax or penalties thereon, utility charges, invoiced fee or other debt which Consultant owes or may owe to the City, City reserves the right to withhold and offset said amounts from payments or refunds or reimbursements owed by City to Consultant. Notice of such withholding and offset, shall promptly be given to Consultant by City in writing. In the event of a dispute as to the amount owed or whether such amount is owed to the City, City will hold such disputed amount until either the appropriate appeal process has been completed or until the dispute has been resolved.

27. **Successors and Assigns.** This Agreement shall be binding upon City and its successors and assigns, and upon Consultant and its permitted successors and assigns, and shall not be assigned by Consultant, either in whole or in part, except as otherwise provided in paragraph 9 of this Agreement.

28. **Venue.** Any action at law or in equity brought by either of the parties hereto for the purpose of enforcing a right or rights provided for by this Agreement shall be tried in the Superior Court, County of Riverside, State of California, and the parties hereby waive all provisions of law providing for a change of venue in such proceedings to any other county. In the event either party hereto shall bring suit to enforce any term of this Agreement or to recover any damages for and on account of the breach of any term or condition of this Agreement, it is mutually agreed that each party will bear their own attorney's fees and costs.

29. **Nondiscrimination.** During Consultant's performance of this Agreement, Consultant shall not discriminate on the grounds of race, religious creed, color, national origin, ancestry, age, physical disability, mental disability, medical condition, including the medical condition of Acquired Immune Deficiency Syndrome (AIDS) or any condition related thereto, marital status, sex, genetic information, gender, gender identity, gender expression, or sexual orientation, military and veteran status, in the selection and retention of employees and subcontractors and the procurement of materials and equipment, except as provided in Section 12940 of the California Government Code. Further, Consultant agrees to conform to the requirements of the Americans with Disabilities Act in the performance of this Agreement.

30. **Severability.** Each provision, term, condition, covenant and/or restriction, in whole and in part, of this Agreement shall be considered severable. In the event any provision, term, condition, covenant and/or restriction, in whole and/or in part, of this Agreement is declared

invalid, unconstitutional, or void for any reason, such provision or part thereof shall be severed from this Agreement and shall not affect any other provision, term, condition, covenant and/or restriction of this Agreement, and the remainder of the Agreement shall continue in full force and effect.

31. **Authority.** The individuals executing this Agreement and the instruments referenced herein on behalf of Consultant each represent and warrant that they have the legal power, right and actual authority to bind Consultant to the terms and conditions hereof and thereof.

32. **Entire Agreement.** This Agreement constitutes the final, complete, and exclusive statement of the terms of the agreement between the parties pertaining to the subject matter of this Agreement and supersedes all prior and contemporaneous understandings or agreements of the parties. Neither party has been induced to enter into this Agreement by and neither party is relying on, any representation or warranty outside those expressly set forth in this Agreement.

33. **Digital and Counterpart Signatures.** Each party to this Agreement intends and agrees to the use of digital signatures that meet the requirements of the California Uniform Electronic Transactions Act (Civil Code §§ 1633.1, et seq.), California Government Code § 16.5, and California Code of Regulations Title 2 Division 7 Chapter 10, to execute this Agreement. The parties further agree that the digital signatures of the parties included in this Agreement are intended to authenticate this writing and to have the same force and effect as manual signatures for purposes of validity, enforceability, and admissibility. For purposes of this section, a “digital signature” is defined in subdivision (d) of Section 16.5 of the Government Code and is a type of “electronic signature” as defined in subdivision (h) of Section 1633.2 of the Civil Code. This Agreement may be executed in any number of counterparts, each of which will be an original, but all of which together will constitute one instrument. Each certified or authenticated electronic copy of an encrypted digital signature shall be deemed a duplicate original, constituting one and the same instrument and shall be binding on the parties hereto.

34. **Interpretation.** City and Consultant acknowledge and agree that this Agreement is the product of mutual arms-length negotiations and accordingly, the rule of construction, which provides that the ambiguities in a document shall be construed against the drafter of that document, shall have no application to the interpretation and enforcement of this Agreement.

34.1 Titles and captions are for convenience of reference only and do not define, describe or limit the scope or the intent of the Agreement or any of its terms. Reference to section numbers, are to sections in the Agreement unless expressly stated otherwise.

34.2 This Agreement shall be governed by and construed in accordance with the laws of the State of California in effect at the time of the execution of this Agreement.

34.3 In the event of a conflict between the body of this Agreement and Exhibit “A” - Scope of Services hereto, the terms contained in Exhibit “A” shall be controlling.

35. **Exhibits.** The following exhibits attached hereto are incorporated herein to this Agreement by this reference:

Exhibit "A" - Scope of Services

Exhibit "B" - Compensation

Exhibit "C" - Key Personnel

**[SIGNATURES ON THE FOLLOWING PAGE]**

IN WITNESS WHEREOF, City and Consultant have caused this Agreement to be duly executed the day and year first above written.

CITY OF RIVERSIDE, a California  
charter city and municipal corporation

MICHAEL K. NUNLEY & ASSOCIATES, INC.,  
a California corporation, doing business as MKN

By: \_\_\_\_\_  
City Manager

By: Michael K. Nunley  
Print Name: MICHAEL K. NUNLEY  
Title: CEO/PRESIDENT/SEC/TREASURER

Attest: \_\_\_\_\_  
City Clerk

**and**

By: Eileen Shields  
Print Name: Eileen Shields  
Title: Vice President

Certified as to Availability of Funds:

By: Keith  
for Chief Financial Officer

Approved as to Form:

By: Susan Ueba  
Deputy City Attorney

**EXHIBIT "A"**

**SCOPE OF SERVICES**

## SCOPE OF SERVICES

The Scope of Service at a minimum shall include the tasks below for each of wastewater lift station:

### A. Preliminary Design Services

1. Initial meeting with City staffs
2. Review existing documents, data, plans, and service records.
3. Design Survey
4. Preliminary Design Engineering
  - a. Hydraulic Analyses and Pump selection
  - b. Preliminary Site and Mechanical Layouts
  - c. Outline for Sequence of Work
5. Preliminary Design Review Meetings

### B. Final Design Services

1. Electrical Service (by City)
2. Geotechnical Investigation and report
3. Preparation of 65% Construction Documents
4. Review Meeting at 65% Completion
5. Preparation of 95% Construction Documents
6. Review Meeting at 95% Completion
7. Preparation of Final Construction Documents

**EXHIBIT "B"**  
**COMPENSATION**

# SECTION G PRICING

## CITY OF RIVERSIDE Civil Design Engineering Services for Western Avenue and Garden Hills Way Wastewater Lift Stations



	Project Director QM/QC	Principal Engineer/Structural	Principal Engineer PM	Senior Engineer II	Senior Engineer I	Project Engineer II	Assistant Engineer II	Senior Designer	Administrative Assistant	Total Hours (MKN)	Labor (MKN)	ODCs (MKN)	Survey - CL Survey	Geotechnical Study - ASE	Electrical/Control Design - EPS	Potholing - USI	Non-Labor Costs	Total Fee
<b>Hourly Rates</b>	315	276	244	239	227	208	178	179	110									
<b>Task Group 1: Preliminary Design Services</b>	Project Management Fee Spread Among Other Tasks																	
Task 1.1 Kick-off Meeting	2		4					6	12		\$2,266	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$ 2,266
Task 1.2 Review Existing Documents, Data, Plans, and Service Records			4		16	16			36		\$7,152	\$ 200	\$ -	\$ -	\$ -	\$ -	\$200	\$ 7,352
Task 1.3 Design Survey			2					2	4		\$708	\$ -	\$ 15,400	\$ -	\$ -	\$ -	\$15,400	\$ 16,108
Task 1.4 Preliminary Design Engineering			32		64	24	32		152		\$31,120	\$ -	\$ -	\$ -	\$ 2,896	\$ -	\$2,896	\$ 34,016
Task 1.5 Preliminary Design Review Meeting			4		2			2	8		\$1,612	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$ 1,612
Task 1.6 Preliminary Design Quality Control	16								16		\$5,040	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$ 5,040
<b>Subtotal</b>	18	0	46	0	82	40	32	10	228		\$ 47,898	\$ 200	\$ 15,400	\$ -	\$ 2,896	\$ -	\$ 18,496	\$ 66,394
<b>Task Group 2: Final Design Services</b>																		
Task 2.1 Geotechnical Investigation and Report			2					2	4		\$708	\$ -	\$ -	\$ 15,345	\$ -	\$ -	\$15,345	\$ 16,053
Task 2.2 Potholing			2					2	2		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,856	\$14,856	\$ 14,856
Task 2.3 Preparation of 65% Construction Documents			40		96	40	240	2	418		\$80,028	\$ -	\$ -	\$ -	\$ 25,300	\$ -	\$25,300	\$ 105,328
Task 2.4 Review Meeting at 65% Completion			2		2			2	6		\$1,124	\$ 200	\$ -	\$ -	\$ -	\$ -	\$200	\$ 1,324
Task 2.5 Preparation of 95% Construction Documents			8		32	24	108		172		\$32,212	\$ -	\$ -	\$ -	\$ 13,014	\$ -	\$13,014	\$ 45,226
Task 2.6 Review Meeting at 95% Completion			2		2			2	6		\$1,124	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$ 1,124
Task 2.7 Preparation of Final Construction Documents			6		32	18	24		80		\$15,620	\$ -	\$ -	\$ -	\$ 2,169	\$ -	\$2,169	\$ 17,789
Task 2.8 Final Design Quality Control	16								16		\$5,040	\$ -	\$ -	\$ -	\$ -	\$ -	\$0	\$ 5,040
<b>Subtotal</b>	16	0	62	0	164	82	372	10	702		\$ 135,856	\$ 200	\$ 15,345	\$ 40,483	\$ 14,856	\$ -	\$ 70,884	\$ 206,740
<b>TOTAL BUDGET</b>	34	0	108	0	246	122	404	20	930		\$ 183,754	\$ 400	\$ 20,900	\$ 15,345	\$ 43,380	\$ 14,856	\$ 89,380	\$ 273,134
<b>Optional Task Group</b>																		
Task A1 Preparation of Plat and Legal Description			2					2	4		\$708	\$ -	\$ 5,500	\$ -	\$ -	\$ -	\$5,500	\$ 6,208
<b>Optional Tasks Subtotal</b>	0	0	2	0	0	0	0	2	4		\$ 708	\$ -	\$ 5,500	\$ -	\$ -	\$ -	\$ 5,500	\$ 6,208
<b>Total with Optional Tasks</b>	34	0	110	0	246	122	404	22	934		\$ 184,462	\$ 400	\$ 20,900	\$ 15,345	\$ 43,380	\$ 14,856	\$ 94,880	\$ 279,342





# 2024 FEE SCHEDULE

CATEGORY	POSITION	HOURLY RATE
Communications and Administrative	Administrative Assistant	\$110
	Strategic Communications Coordinator	\$120
	Strategic Communications Specialist	\$160
Designers and Technicians	CAD Technician I	\$145
	CAD Design Technician II	\$165
	Senior Designer	\$179
Planning	GIS Specialist	\$175
	Planner I	\$191
	Planner II	\$217
	Senior Planner	\$234
Engineers	Engineering Technician	\$119
	Assistant Engineer I	\$159
	Assistant Engineer II	\$178
	Project Engineer I	\$193
	Project Engineer II	\$208
	Senior Engineer I	\$227
	Senior Engineer II	\$239
	Senior Engineer III	\$254
Principal Engineer	\$276	
Project Management	Project Manager	\$244
	Senior Project Manager	\$254
	Project Director	\$297
	Senior Project Director	\$315
Construction Management Services	Scheduler	\$170
	Construction Inspector	\$190
	Assistant Resident Engineer	\$190
	Resident Engineer	\$202
	Construction Manager	\$220
	Principal Construction Manager	\$259

The foregoing Billing Rate Schedule is effective through December 31, 2024 and will be adjusted each year after at a rate of 2 to 5%.

### DIRECT PROJECT EXPENSES

Outside Reproduction	Cost + 10%
Subcontracted or Subconsultant Services	Cost + 10%
Travel & Subsistence (other than mileage)	Cost
Auto Mileage	Current IRS Rate



**EXHIBIT "C"**

**KEY PERSONNEL**



**KEVIN  
SALEH, PE**  
PROJECT MANAGER

**EDUCATION**

University of Tabriz, Iran  
BS Civil Engineering

**PROFESSIONAL REGISTRATIONS**

California Professional Engineer -  
Civil - C90535

Mr. Saleh has over two decades of experience as a civil engineer. His professional experience includes planning, design, construction management, and construction support services for a variety of public works projects, with specific areas of practice in water and wastewater. His relevant experience includes water distribution and treatment facilities, pumping facilities, treatment plant projects/processes, reservoirs, pressure reducing, and surge facilities. Wastewater projects include conveyance systems, pumping stations, and treatment plant projects and processes.

**Relevant Projects**

Fairgrounds St. & Dexter Dr. Wastewater Lift Station Replacement Project | City of Riverside, CA

Project Manager for this project, which includes the replacement of two lift stations. The Fairgrounds Wastewater Lift Station was constructed in 1966 and it is currently equipped with two 5-hp Fairbanks Morse 230-volt three-phase motors. The Dexter Wastewater Lift Station was built in 1968. The existing Vaughan vertical chopper pumps were installed in the early 1990s, replacing the vertical non-clog pumps. The Vaughan chopper pumps are rated for 170 gpm at 20 TDH. The City desires to replace both existing lift stations with new lift stations conforming to the City's Sewage Lift Station and Force Main guidelines. LEE+RO is preparing construction documents for the replacement of two existing wastewater pump stations.

Pierce Street Sewer Pump Station Condition Assessment | City of Riverside, CA

Project Manager for The Pierce Street Pump Station. The Pierce Pump Station is the largest wastewater lift station in the City of Riverside and handles an average of 4.5 MGD. The condition assessment for the Pierce Street Sewer Pump Station was to address the operational challenges the pump station is experiencing, including non-operational valves, leakage from the wet well into the dry well, aging mechanical equipment, and outdated electrical components.

Wood Road Sewer Pump Station Assessment | City of Riverside, CA

Project Manager for this Sewer Pump Station Assessment. The City of Riverside, Public Works Department (City), is currently experiencing operational challenges at the Wood Road sewer pump station. Some of the issues are heavy ragging, extended ramp-up time of the VFDs, pumps not operating at the recommended efficiency level, and most recently, failure of the ultrasonic sensors. As Project Manager Kevin is leading a team to assess the current conditions of the Wood Road pump station and recommend modifications to the current operations and programming of the station. The desired outcome is to reduce the ragging problem, to have the pumps working at their recommended efficiency level, and to resolve any major flaws discovered during the assessment process.

Meridian Lift Station Replacement | San Bernardino Municipal Water District, CA

Project Manager for this lift station replacement project. The Meridian Sewer Lift Station was installed 41 years ago, in 1983, and is in relatively poor condition as most components have exceeded their normal life expectancy of 15-20 years. In addition, the sewer lift station has a limited storage capacity to provide adequate response time to address potential station operational issues. It does not have a backup power supply and relies on an antiquated auto-dialer system to notify staff of critical alarm conditions. LEE + RO is providing engineering services for project design, preparation of contract documents, and bidding support and engineering support during the construction (ESDC) of the new sewer lift station. The replacement sewer lift station includes a new wet well and conversion of the existing wet well to emergency storage, new submersible pumps, new electrical services and power distribution system instrumentation, controls, and SCADA system, and a new CMU

## **Kevin Saleh, PE**

### **RELEVANT EXPERIENCE (CONT.)**

building housing the electrical equipment. In lieu of an emergency standby diesel generator, SBMWD opted to use a battery energy storage system for backup power supply during an electrical power outage and for peak shaving to lower their energy costs. Kevin was responsible for researching the various battery suppliers, sizing the battery system, and making recommendations for SBMWD's pre-selection of the battery supplier. Kevin also assisted SBMWD with applications for available incentives through the Self-Generation Incentive Program (SGIP).

Seal Beach Pump Station Replacement | Orange County Sanitation District, CA

Civil / Mechanical Engineer for the Orange County Sanitation District's new \$74 million 34 MGD capacity pump station. The new pump station will be located on the same site as the existing 50 year old pump station. The site layout is tightly constrained by the Naval Weapons Station Seal Beach and large arterial roads, and the existing pump station must remain operational throughout construction. LEE + RO provided preliminary design and final design services that included, demolition, civil, mechanical, structural architectural, HVAC, electrical, instrumentation & control system design, site improvements, underground vaults, a new gravity collection sewer and force main segments, odor control, facilities for drainage, paving, landscaping and irrigation, perimeter walls and security, and other utilities. In addition, temporary facilities are required to maintain operation of the existing pump station during construction. Project design is complete, and the project is scheduled to advertise for bid in May.

Paseo De Valencia Lift Station Rehabilitation Project | Orange County, CA

Project Manager responsible for preparation of plans, specifications, estimates, and construction support to rehabilitate and upgrade the existing lift station by replacing the existing pumps, mechanical, electrical, and control equipment and for a portable generator plug-in connection and associated equipment.

Sewer Lift Station No. 9 and 11, Sewer Collection and Water Distribution System Improvement Project | City of Calexico, CA

Civil engineer performing pipeline and wet well design services for the sewer lift station project which consists of upgrading two 250 gpm self-priming duplex lift stations, replacing existing 12" AC waterline with new 12" PVC waterline, replacing existing 15" gravity sewer with new 24" gravity sewer, replacing existing 18" gravity sewer with new 18" gravity sewer, and replacing existing 8" and 10" forcemains with new 8" and 10" forcemains. The City of Calexico owns and operates Sewer Lift Station Nos. 9 & 11 and anticipates two major residential developments will soon be approved for construction which will significantly impact the City's sewer collection system. LS-9 and LS-11 were constructed in 1979 and have limited sewer capacity, and the existing upstream and downstream force mains and gravity main pipelines are undersized to convey the increased flows.

RMV PA-3 Lift Station Study | Rancho Mission Viejo, CA

QA/QC Engineer. Responsible for quality assurance prior to the submittal. Project included a preliminary design report (PDR) for Rancho Mission Viejo's Planning Area 3, a 2,200-acre, 7,510 dwelling unit with 510 affordable housing units located approximately 2 miles east of Antonio Parkway. The PDR is intended to support the project to move into the design of both the interim and ultimate lift station facilities.

Bluebird Lift Station Odor Control | Orange County, CA

Senior Project Engineer responsible for developing plans, specifications, and cost estimate for the installation of a biological odor control unit inside an enclosure to match architecture of an adjacent lift station. The lift station is the City's largest lift station, which conveys all wastewater flows within the City's sewer utility service boundaries to the Coastal Treatment Plant. The lift station transports approximately two million gallons of wastewater daily.





**RYAN  
GALLAGHER, PE**  
PRINCIPAL-IN-CHARGE

**EDUCATION**

California Polytechnic State  
University, San Luis Obispo  
BS Civil Engineering

**PROFESSIONAL REGISTRATIONS**

California Professional Engineer -  
Civil - C74805

**PROFESSIONAL ASSOCIATIONS**

Tustin City Council (2020-2024)  
Orange County Sanitation District  
(Board of Directors 2020)  
Orange County Water Association  
(President 2020 and 2021)  
American Society of Civil Engineers  
(Santa Barbara/Ventura YMF  
President 2012)  
American Public Works Association  
(Ventura County Chapter President  
2014)  
Association of Water Agencies  
Ventura County (President 2013,  
Board of Directors 2010-2016)

Mr. Gallagher for the past 17 years, has completed over 100 projects with 25 public agencies in Southern California, serving as the Project Manager for the majority. The estimated construction value of the projects that have been planned, designed and/or constructed exceeds \$250 million. Projects include planning through design for water, wastewater and recycled-water conveyance, pumping, storage, and treatment. Ryan specializes in complex multi-agency water supply programs, alternative delivery program management, master planning, and contract negotiations.

**Relevant Projects**

Constructability Review for North Valley Lift Station | Oceanside, CA

Under On-Call contract, provided constructability review for North Valley Lift Station Improvements Project. The project included replacement of 20-inch sewer force main, demolishing damaged and abandoned equipment, new concrete embankment, and installation of two cast in place concrete piers to support existing pipe bridge.

Constructability Review for Pilgrim Creek Lift Station | Oceanside, CA

Under On-Call contract, provided constructability review for Pilgrim Creek Lift Station Improvements Project. The project included replacement of existing submersible pumps with dry-pit pumps, the replacement of bioxide system and associated civil and mechanical modifications.

Lift Station B Evaluation, Channel Islands Beach Community Services District | Ventura County, CA

Principal-in-Charge for evaluation of existing wastewater lift station and development of three alternatives for replacement. Project included hydraulic modeling, lift station sizing, constraints analysis and recommendations. The selected project includes a new smaller submerged lift station at an estimated cost of \$900,000. Optimizations identified within the study are estimated to reduce operating and maintenance cost by approximately \$250,000 over a 20-year period.

Lift Station B Preliminary Design, Channel Islands Beach Community Services District | Ventura County, CA

Project Manager for preliminary design for the rehabilitation of existing lift station. The project included flow monitoring, lift station sizing and pump design criteria, concept layout, and permitting support. The lift station is located within the sand at Hollywood Beach and requires coordination with the existing Local Coastal Development Permit.

Lift Station Condition Assessment (6 Lift Stations), Emerald Bay Service District | Laguna Beach, CA

Project Manager for condition assessment of 7 lift stations for Emerald Bay Service District. Efforts included development of a field evaluation of all lift stations, preparation of observations and condition ratings, and preparation of a 5-year CIP for implementation of project recommendations based on prioritization and collaboration with District operations staff. The recommendations included 47 projects/improvements for a total of \$2.1M.

Lift Station Condition Assessment (7 Lift Stations), Channel Islands Beach CSD | Channel Islands Harbor, CA

As Project Manager, evaluated seven existing raw wastewater lift stations in the District service area. Prepared a report with recommended improvements covering mechanical, structural, electrical, and instrumentation.

## **Ryan Gallagher, PE**

### **RELEVANT EXPERIENCE (CONT.)**

Lift Station Condition Assessment (12 Lift Stations), South Coast Water District | Laguna Beach, CA

Project Manager for condition assessment of 12 lift stations for South Coast Water District. Efforts included development of a standard condition assessment form, field evaluation of all lift stations, preparation of observations and condition ratings, and uploading data and form into online ArcGIS platform. Results were used to establish over 160 projects and a 10-year implementation plan based on prioritization ranking and collaboration with District operations staff.

LS#3 Rehabilitation Preliminary Design, Emerald Bay Service District | Laguna Beach, CA

Principal-in-Charge for preliminary design for rehabilitation of existing lift station. The project included estimation of influent flows, lift station sizing and pump design criteria, concept layout, and permitting support. The lift station is located within the sand of Emerald Bay Beach and requires coordination with the existing Local Coastal Development Permit.

Force Main Rehabilitation Constructability Review, Channel Islands Beach Community Services District | Oxnard, CA

Project Manager for a constructability review of 90 percent design documents related to a sewer rehabilitation project. Improvements included cured-in-place pipeline (CIPP) lining for approximately 2 miles of 8-inch to 12-inch force main. The review included technical evaluation of design drawings and specifications and development of a summary table of comments.

Force Main Rehabilitation, Channel Islands Beach Community Services District | Channel Islands Harbor, CA

Project Manager providing construction management services related to cured-in-place lining for approximately 10,300 linear feet of 8-inch and 12-inch wastewater force main piping.

HDPE Brine Pipeline, Water Replenishment District of Southern California | Pico Rivera, CA

Principal-in-Charge for this project that included an approximately 2,000-foot, 16-inch-diameter, high-density polyethylene (HDPE) pipeline in the city of Pico Rivera. The pressurized pipeline conveyed brine from the Groundwater Reliability Improvement Project (GRIP) Advanced Water Treatment Facility (AWTF) to a 63-inch trunk sewer owned and operated by the Sanitation Districts of Los Angeles County (LACSD). The work included both preliminary and final design. In addition, the preliminary design included evaluation of a turnout structure along a 66-inch reinforced-concrete pipe conveying tertiary effluent from the San Jose Creek Water Reclamation Plant. The objective of the turnout was to deliver influent water to the GRIP AWTF.

Recycled-Water PS-1 Upgrades, Burbank Water and Power | Burbank, CA

Project Manager on this project which included expansion of an existing recycled-water pump station at the Burbank Water Reclamation Plant, operated by Burbank Water and Power. Provided design support services for the development of the Preliminary Design Report, including evaluation of existing and future recycled-water demand, pump expansion phasing, facility piping, distribution system hydraulics, and analysis of pump configuration alternatives.

Sewer Rehabilitation Planning and Design, Channel Islands Beach Community Services District | Channel Islands Harbor, CA

Project Manager for development of rehabilitation plan based on review of CCTV and inspection results. Prepared 5-Year CIP based on identification and grouping of priority rehabilitation projects, and conceptual cost estimates. Projects include both cured-in-place liners, spot repair projects, and manhole rehabilitation. Provided design of Phase 1 Improvements which included repair of 25 manholes, replacement of 25 manhole covers, 13 spot repairs, 71 top hats and 3,500 feet of full CIPP liner across 10 locations. Project cost was \$442,923 (engineer estimate \$437,000).





**SAFA**  
**KAMANGAR, PE, PMP, CCM**  
QA/QC

**EDUCATION**

Un|versity of Tehran, Iran  
MS Civil Engineering  
Azad University, Iran  
BS Civil Engineering

**LICENSES & REGISTRATIONS**

California Professional Engineer  
- Civil - No. C70118  
Qualified SWPPP Developer (QSP)  
- No. 23059  
Project Management Professional  
(PMP) - No. 1863656  
Certified Construction Manager  
- No. 6341  
Envision Sustainability Professional  
OSHA 30-Hour Construction  
Outreach Training  
OSHA 40-Hour HAZWOPER  
Certification  
Confined Space Training

**PROFESSIONAL ASSOCIATIONS**

American Public Works Association  
American Society of Civil Engineers  
American Water Works Association  
Iranian American Society of  
Engineers and Architects  
Orange County Water Association

Safa is a highly experienced professional with over 25 years of expertise in water, wastewater, and water reuse. As a design engineer, Safa has performed hydraulic calculations, mechanical design, detailed design drawings, and development of specifications. He has a strong background in planning, design, and construction management, gained from working in both the private and public sectors. With a specialization in hydraulic calculations, mechanical design, and detailed design drawings, Safa has successfully led numerous projects, including over 50 pumping and pressure/flow regulating facilities in southern California.

**Relevant Projects**

Landmark Sewer Lift Station Design -- Newhall Land, Valencia | Santa Clarita, CA  
Project Manager. Work included performing preliminary and final design services for a new sewer lift station to convey sewage from an approximately 6,000-unit development to the Valencia Water Reclamation Plant. The project consists of building a new cast-in-place concrete dry and wet pit lift station with a capacity of 2,650 gallons per minute, a valve and bypass vault, emergency storage tanks, odor control, electrical gear, control systems, a standby generator, and new, 17,400-foot dual HDPE force mains.

Santa Ana Civic Center Pump Stations Upgrades, City of Santa Ana | Santa Ana, CA  
Project Manager. Responsible for project oversight. Performed preliminary studies and final design services to identify options, recommend upgrades, and provide final construction plans for two stormwater lift stations at the Santa Ana Civic Center. After flooding during the 2016 El Nino season, the mechanical and electrical equipment in both lift stations were deemed to have reached the end of their lifespans. Project included designing upgrades for both stations that included the replacement of pumps, sump pumps, motors, piping and valves, structural and electrical improvements, site and drainage enhancements, and upgrades to SCADA and electrical instrumentation.

Saybrook Lift Station Replacement, City of Huntington Beach | Huntington Beach, CA  
Project Manager. Provided design services for the Saybrook Lane Sewer Lift Station at the intersection of Saybrook Lane and Heil Avenue. Part of the lift station replacement included a new 30-ft deep wet-well structure, slide rail system submersible pumps, piping and force main, a valving facility and vault, electrical service and instrumentation, and a new gas-powered generator. Additionally, project included the design of relocating about 2,000 feet of existing utilities that conflicted with construction and reconfiguring traffic lanes and a median in the intersection to allow for the new lift station.

Yellowstone Lift Station and Force Main, Raintree LLC | Santa Clarita, CA  
Project Manager. Responsible for project oversight. Provided engineering design services for a new 500-gpm sewer lift station and dual force mains for the Spring Canyon Development project. The design included plans and specification detailing the various civil, structural, mechanical, and electrical design required for a fully operational facility per LA County Department of Public Works requirements.

Paseo De Valencia Sewer Lift Station Rehabilitation | Moulton Niguel Water District, CA  
Included removal of existing pumps and installation of two new pumps, piping and new electrical components. Project also included evaluation of existing wet well lining and recommendations for structural and lining repairs.

## **Safa Kamangar, PE, PMP, CCM**

### **RELEVANT EXPERIENCE (CONT.),**

Azusa Avenue Sewer Lift Station, City of West Covina | West Covina, CA

Project Manager. The project included removal of two existing pump stations and constructing a brand new submersible wet well type pump station and controls, including backup generator. The project also included designing a bypass system and providing sequence of construction.

Arantine Hills Sewer Improvements, City of Corona | Corona, CA

Construction manager overseeing a team of 3 inspectors and 2 project engineers, managing 3 separate contractors for construction of a new sewer lift station, overflow structure, forcemain, and gravity sewer, for a total construction cost of \$7M.

Edgewater Sewer Lift Station, City of Huntington Beach | Huntington Beach, CA

Construction manager for construction of a new wet well type sewer lift station, forcemain, piping, electrical and controls. Project includes construction of a 30-ft deep wet well structure less than two miles from the coastline which required an extensive dewatering and monitoring program, for a total construction cost of \$4M.

Algonquin Sewer Lift Station, City of Huntington Beach | Huntington Beach, CA

Project Manager. Managed project that consisted of keeping operational the existing Algonquin Lift Station while constructing a new station adjacent to the existing one. Project included construction of concrete structure 35 ft deep, construction of valving and metering vault, construction of new sewer mains, force mains, and manholes, installation of new power and control system, and providing start-up protocol and check list.

Sewer Lift Station #24, City of Huntington Beach | Huntington Beach, CA

Project Manager. Managed project that consisted of keeping operational the existing sewer lift station while constructing a new station adjacent to the existing one. Project included construction of concrete structure 35 ft deep, construction of valving and metering vault, construction of new sewer mains, force mains, and manholes, installation of new power and control system, and providing start-up protocol and check list.

Tiffany Pump Station | Garden Grove Sanitary District, CA

Project Manager in charge of design and engineering calculations and developing 50%, 90% and final plans and specifications for replacing the existing Tiffany sewer pump station, influent gravity lines and forcemain.

Palomino Park Storm Water Pump Station | Norco, CA

Stormdrain runoff from a large industrial development site is captured in two proposed retention basins which are connected and have a floor and high water elevations lower than the existing stormdrain collection system in the adjacent street. DEA completed the design for a storm drain pump station that is required to transfer the storm drain runoff from the retention basins into the existing public storm drain system. The pump station's discharge pipe will be connected to an existing catch basin in the vicinity of the project within the public right-of-way (ROW). The pump station will employ two pumps with maximum discharge rate of 4.5 cfs, with approximately 21 ft of total dynamic head (TDH). The scope of work included preparation of hydraulic calculations, sizing of the required pumps, piping, and wet well, providing piping and mechanical details (excluding the drafting work) for the pump station construction, and coordination with the pump station system supplier for pump, power, and control requirements.





**DENNIS  
PHINNEY, PE**  
QA/QC

**EDUCATION**

Rensselaer Polytechnic Institute  
MS Civil Engineering  
BS Civil Engineering

Pepperdine University, CA  
MBA Business Administration

**PROFESSIONAL REGISTRATIONS**

California Professional Engineer -  
Civil - No. C30778

California Professional Engineer -  
Mechanical - No. M21533

**PROFESSIONAL ASSOCIATIONS**

American WaterWorks Association  
(Life Member)

Mr. Phinney's 45 years of consulting experience in water and wastewater engineering includes design of over 100 pumping facilities, two of which were awarded Southern California APWA "Projects of the Year." He has also designed pipelines, wells, chemical feed facilities, reservoirs, and water and wastewater treatment facilities in service throughout California and Arizona.

Mr. Phinney has prepared water and wastewater master plans for service areas aggregating over 1 million residents, has authored standard specifications adopted by water agencies throughout California, and was responsible for preparing the sections added to the "Greenbook" Standard Specifications for Public Works Construction in 2015 to address water and wastewater pipelines and appurtenances.

**Relevant Projects**

Philadelphia Street Recycled Water Pipeline Study | Ontario, CA

Project engineer for preparation of study of alternate alignments, hydraulics and life-cycle costs for 30-inch recycled water main in Ontario, California. Study included evaluation of alternate materials and hangers for in-plant bridge crossing suspending 24- or 30-inch PVC or steel pipe.

Planning Area 6, Zones 6 & D Reservoirs, Irvine Ranch Water District | Irvine, CA

Prepared preliminary design report, plans, and specifications for 2.5 MG domestic water and 0.66 MG recycled water partially buried pre-stressed concrete tanks, 1,200 lineal feet, 16-inch domestic water and 1,200 lineal feet of 20-inch recycled water transmission mains, control valve stations, reservoir management system, access road grading, site grading and remedial earthwork, site piping, and drains. Project included a Reservoir Management System with chlorine and ammonia injection, mixing and chlorine residual analyzers.

Bake Parkway Recycled Water Pipeline, Irvine Ranch Water District | Irvine, CA

Prepared preliminary design report and plans and specifications for approximately 3,400 linear feet of 12-inch diameter PVC pipe, 730 linear feet of 10-inch steel pipe in Caltrans bridge, 5,000 linear feet of 24-inch steel pipe, connections, pressure reducing station, and permitting with Caltrans and two cities.

Planning Area 6, Zone 4 & Zone C Reservoirs, Zone 4/6 BPS & Zone C/D BPS, Irvine Ranch Water District | Irvine, CA

Prepared preliminary design report, plans, and specifications for 3.5 MG domestic water and 2.2 MG recycled water partially buried pre-stressed concrete tanks, domestic water and recycled water pump stations with (4) 125-hp and (1) 50-hp VFD pumps each, reservoir management system, grading and site improvements, access road, 1,000 LF of 20-inch domestic water pipeline, 1,000 LF of 24-inch recycled water pipeline, 1,000 LF of 24-inch storm drain, site piping, drains, and vaults.

Feasibility Study for Anaheim Lake - Warner Basin Pipeline, Orange County Water District | Fountain Valley, CA

Prepared study with extensive economic analysis of alternate pumping configurations, pipeline alignments, relining alternatives and pipeline sizes for a large diameter waterline and low head high volume pumps. The purpose of the project was to transfer an additional 100-cfs of captured runoff from the Santa Ana River Lakes Warner Basin to Anaheim Lake, Miller Basin and Kraemer Basin. Pipeline alternatives included new large diameter steel pipe, or tunneling as well as rehabilitation of existing pipes to increase capacity. Pump station alternatives included vertical mixed flow or propeller pumps as well as inclined shaft pumps on basin banks. Recommended facilities included four 250-hp pumps and a mile of 48-inch steel pipeline.

## **Dennis Phinney, PE**

### **RELEVANT EXPERIENCE (CONT.)**

Trabuco Road and Jeffrey Road Transmission Lines, Irvine Ranch Water District | Irvine, CA

Design of 3 miles of 42-inch and 24-inch steel water pipeline along urban arterials.

El Dorado Park Reclaimed Water Reuse Project | Long Beach, CA

Design of regional reclaimed water reuse pump station with a capacity of 8500 gpm, plus 5 miles of 20-inch reclaimed water pipeline. Project delivers reclaimed water to City and County parks.

Mangular Blending Facility (2023 APWA Southern California BEST Project of 2023 Drainage, Water Wastewater Category) | Corona, CA

Project Manager for combined water treatment and pumping facility allowing City to use existing 2.0MG 905-Zone Mangular Park buried water tank as a second groundwater blending facility supplementing Corona's Garretson Blending Facility. The Mangular facility blends 1000-3800 gpm of inexpensive nitrate-containing water from the Temescal Groundwater Basin with surface water from other sources to provide citizens with a greater volume of EPA-compliant potable water. The blended water is then disinfected with chlorine and ammonia before introduction to the water system.

Walnut Pump Station, City of Santa Ana | Santa Ana, CA

Project engineer for preparation of design report, plans and specifications for new masonry buildings at Walnut Pump Station including new 3500-square-foot pump building to house existing pumps delivering well water from 7MG buried reservoir to Santa Ana distribution system using 5 existing vertical turbine pumps. New structure replaces obsolete building built in 1956. Main building included new pump room, workshop, electrical building, office space and bath and shower facilities. Design also included separate 200 square-foot industrial storage building for sodium hypochlorite and POL fuel, plus a carport structure to shade a generator, a perimeter fence wall, and tennis practice courts and backwalls in the adjacent park to mask the perimeter fencing. Project earned Envision bronze rating from Institute for Sustainable Infrastructure.

Ross Booster Station, City of Pasadena | Pasadena, CA

Project manager overseeing design of 1400 gpm booster station including three 60-hp inline vertical pumps within a tight existing building. Work included site redesign and mechanical, HVAC, electrical and structural redesign of building to improve pumping capacity and facilitate operation.

Western Pump Station Upgrades, City of Glendale | Glendale, CA

Project engineer for upgrades of major city water pumping facility including power conversion from medium to low (460VAC) voltage, replacement of two horizontal pumps, upgrading of Clavalves, site work and reconfiguration of piping in residential street to increase system flexibility.

La Palma Reservoir and Pump Station Rehabilitation, City of Anaheim | Anaheim, CA

Project engineer for preparation of feasibility study, preliminary design report, plans and specifications for reconstruction of 4MG Hypalon-lined and aluminum roof La Palma Reservoir, new La Palma Pump Station including two 250-hp and two 125-hp pumps, standby power, remodeled restroom and chemical analyzer building, slip-lining of existing 12" cast iron pipe with new 10" HDPE pipe, inspection of and extensive pervious pavement and WQMP storm water capture facilities onsite.

Rosecrans Booster Station, City of Buena Park | Buena Park, CA (2016)

Project engineer for preparation of plans and specifications for new booster station serving upper zones of Buena Park Water System including five pumps (25 hp, two 50-hp and two 150-hp), standby power, onsite 0.8% sodium hypochlorite generation facilities, and rehabilitation of on-site 30" concrete cylinder pipe.

Parkview Pump Station, City of Anaheim | Anaheim, CA (2009)

Project engineer for preparation of preliminary design report, plans and specifications for construction of new domestic water pump station with two 200-hp vertical turbine pumps with 5,000-gpm pumping capacity, masonry block building, mechanical piping, electrical, SCADA, site improvements, propane fuel system including 3000-gallon pressure tank and retaining wall.





**KATHLEEN  
LABRADOR, PE**  
PUMP STATIONS/  
MECHANICAL

**EDUCATION**

University of California, Irvine  
BS Civil Engineering

**LICENSES & CERTIFICATIONS**

California Professional Engineer  
- Civil - No. C90355

Colorado Professional Engineer  
- Civil - No. 61003

**PROFESSIONAL ASSOCIATIONS**

Orange County Water Association  
California Water Environmental  
Association

Ms. Labrador has 9 years of experience in the water/wastewater civil engineering field. Her experience includes planning and design of potable water, sewer, and recycled water facilities within California. Her planning experience includes conducting hydraulic analyses for water, recycled water, and sewer projects where she uses hydraulic modeling software to build models, run simulations and summarize the results in a report. Her design experience includes various pipeline, pump station, lift station and reservoir design where she has prepared preliminary reports, plans, specifications, and cost-estimates and provided construction support.

**Relevant Projects**

Ham Park Reservoir and Pump Station | Lynwood, CA

Project consists of preparation of a preliminary design report, design, and construction documents for a 2 million gallon partially buried prestressed concrete reservoir, booster pump station (consisting of three vertical turbine pumps), and associated improvements. The reservoir includes a recreational area on the roof to preserve the intended recreational use of the site. Project includes coordination with local agencies (including Los Angeles County Flood Control District), regulatory agencies (Department of Drinking Water), etc. Responsible for developing the design plans and specifications of the reservoir and pump station site, including the site, temporary grading, final grading, yard piping, reservoir and pump station mechanical designs.

Palomino Park Storm Water Pump Station | Norco, CA

Stormdrain runoff from a large industrial development site is captured in two proposed retention basins which are connected and have a floor and high water elevation lower than the existing stormdrain collection system in the adjacent street. This project included the design for a storm drain pump station that is required to transfer the storm drain runoff from the retention basins into the existing public storm drain system. The pump station's discharge pipe will be connected to an existing catch basin in the vicinity of the project within the public right-of-way (ROW). The pump station will employ two pumps with maximum discharge rate of 4.5 cfs, with approximately 21 ft of total dynamic head (TDH). Responsible for the preparation of hydraulic calculations, sizing of the required pumps, piping, and wet well, providing piping and mechanical details (excluding the drafting work) for the pump station construction, and coordination with the pump station system supplier for pump, power, and control requirements.

Zone B Recycled Water Pump Station Preliminary Design Report, SMWD | California

Prepared a preliminary design report for the ultimate and interim pump stations to provide recycled water from SMWD's Zone A system to the new Rancho Mission Viejo Development (Planning Area 3-4 through 3-14), which will eventually include a storage reservoir. Connected to the Zone B system the pumps station will ultimately include four 75-hp pumps designed at 1000-gpm @ 250-ft TDH, two surge tanks (suction and discharge), flow meter and vault, and electrical and instrumentation. Served as a project engineer responsible for the preparation of hydraulic calculations, sizing of required pumps, piping, pump selection, and preparing preliminary design plans.

Hacienda Pump Station Project | La Habra, CA

Project includes preliminary analyses, final design, and construction support services for the City of La Habra's new Hacienda Park Booster Pump Station. The new pumping facility will replace two existing pump stations that currently serve the Foothill Zone of the City's water system. The proposed facility will be constructed within the Hacienda Park upon a new asphalt pavement with access roads, and will include seven vertical turbine pumps covering a flow range of 25 to 3,500 gallons per minute. Construction of approximately one mile of 12-in transmission pipe, a

## **Kathleen Labrador, PE**

### RELEVANT EXPERIENCE (CONT.)

stationary generator, and a surge tank are included as part of the project. Responsible for developing the site and grading plan, sizing and selecting pumps, and developing construction documents for the pump house.

SCLA 1-MG Reservoir and Pump Station | Victorville, CA

Served as a project engineer. Project includes the design and construction support services for a new 1 million gallon recycled water concrete reservoir, a pumping station, yard piping, and a 1,300 LF of domestic water pipeline back up connection to the reservoir. The proposed project is located at the Southern California Logistics Airport (SCLA) in the City of Victorville, within the abandoned George Air Force Base. Reclaimed water is currently used at SCLA to offset some potable water demands. The City also supplies reclaimed water to the High Desert Power Project (HDPP) for cooling water and for the irrigation of two City park facilities within SCLA. The purpose of this project is to expand the reclaimed water distribution system at SCLA to serve additional customers, continue water conservation efforts, and increase the use of reclaimed water to offset potable water demand to balance supplies and demands into the future. End users would continue to be industrial tenants of the SCLA.

Bark Yard Pump Station | Denver, CO

Design of a small pump station to provide potable and fire flow protection water to a new development in outskirts of Denver. The property is located at the end of a pressure zone without adequate pressure to serve the residence and dog kennels, located approximately 50 ft higher in the property. Provided a local hydropneumatic pump system to serve this property.

Sterling Pump Station Construction Support | Riverside, CA

Provided support services for the Sterling Reservoir and Pumping Station. The Western Municipal Water District (WMWD) provides drinking water to customers located within a 510-square-mile district of western Riverside County. Water resources include treated surface water and treated groundwater. The project elements are comprised of a new 1.5 MG prestressed posttensioned concrete reservoir with 80 ft diameter and 35 ft height; a high pressure pumping station with six 700-HP pumps, each sized for 2200 gpm at 1000 ft of head (approximately 450 psi discharge pressure), two of which are gas engine driven pumps; a chemical injection building and metering pumps to generate and inject mono-chloramines; a flow control facility consisting of a 16 inch Cla-Val combination valve; pump house building; 15,000 gallon surge tank; and site improvements and fencing. Responsible for providing construction engineering support services. Construction support duties include completing final bid construction plans and specifications prior to construction, designing modifications to alleviate issues during construction, assisting in hosting a workshop for Operations training, co-authoring the Operations and Maintenance Manual, and providing oversight during the start-up and commissioning of the reservoir and pump station.

Rose and Vine Sewer Improvements, Citywide Sanitary Sewer Program | Anaheim, CA

The Citywide Sanitary Sewer Program Sewer Improvements is located in the City of Anaheim. The scope is to provide the City with preliminary design and preparation of plans, specifications, and estimates for the sewer replacement on Vine Street and Rose Street, north of Lincoln Avenue in Anaheim, CA. The purpose is to mitigate existing deficiencies identified in the City's Master Plan of Sanitary Sewer. The project consists of upsizing 1,300 LF of existing sewer pipe from 6 inches to 8"/10" sewer pipe. Responsible for authoring the preliminary design report that summarizes the design considerations of the project, existing and proposed sewer capacity calculations, alternative alignments and trenchless alternatives, pipe material selection, construction methods, and designed preliminary plans. Also responsible for preparing the construction plans, specifications, and cost-estimate and participated in the City's workshop to discuss design prior to finalization.





**PARASTO  
AZAMI, PE**  
PIPELINES

**EDUCATION**

University of California Irvine,  
California

MS Civil Engineering

University of Tabriz, Iran

BS Mechanical Engineering

**LICENSES & REGISTRATIONS**

California Professional Engineer -  
Civil - No. 91468

**PROFESSIONAL ASSOCIATIONS**

American Society of Civil Engineers

Association of Woman in Water,  
Energy & Environment

Woman in Water (OC Chapter)

Ms. Azami brings over 12 years of experience in water and wastewater engineering design delivering designs in the areas of gravity sewer, force main, water conveyance system, pump station, rehabilitation, and condition assessment. Her experience includes multiple, complex large pipeline design projects.

**Relevant Projects**

Laguna Cliffs Marriott Pipeline, South Coast Water District | Dana Point, CA

Project Manager and Design Lead for design of 2,000 feet of new 12-inch water main via open trench installation in the vicinity of the Laguna Cliffs Marriott in the City of Dana Point. Major tasks included alternative alignment analysis, coordination with resort for site access and staging area, and pipe design in steep slope.

Circula Panorama Pipeline Replacement, East Orange County Water District | Orange, CA

Project Manager for preliminary and final design of 4,000 feet of new 12-inch waterlines and three pressure reducing facilities. Major tasks included alternative analysis, utilities research, development of a plan and profile, coordination with County for Traffic and pavement replacement requirements.

Hollywood Beach & Roosevelt Waterline Replacement, Channel Islands Beach Community Services District | Channel Islands Harbor, CA

Project Manager and Design Lead for replacement of an existing potable water line located within private easements and transferring customer services to new pipeline.

Recycled Water Conveyance Pipeline, Pleasant Valley County Water District | Ventura County, CA

Design Lead for preliminary and final design of 8,000 feet of 18-inch pipeline in Ventura County. The effort included HDD installation underneath of red-line channel, environmental permitting, and coordinating with jurisdiction agencies.

Orange Knoll PRV and Brae Glen Pipeline, East Orange County Water District (EOCWD) | North Tustin, CA

Project Manager and Design Lead for design of new pressure reducing facility and new water line to abandon existing pipe in easement. Project included site visit, preliminary and final design, specifications, stakeholder coordination and community outreach.

Serrano Creek Raw Waterline Replacement, Irvine Ranch Water District | Irvine, CA

Design Lead for design of new 8-inch raw water line, with over 100 feet of trenchless/tunneling pipe. Task included identifying optimum alignment, coordinating with utility and jurisdiction agencies, preparing plans, specification, cost estimate and construction schedule.

Morena Pump Station and Conveyance System (Pure Water), City of San Diego | San Diego, CA

Design Engineer for design of over 11 miles of 48-inch force main and 30-inch brine line to convey sewer from Morena pump station to North City Pure Water Facility and produce 15 MGD of purified drinking water. Major tasks included hydraulic analysis, steel pipe calculations (AWWA M-11), construction plans and specifications, and pressure reducing valve (PRV) facility.

Emergency Water Interconnects & Pressure Reducing Station, City of Thousand Oaks | Thousand Oaks, CA

Design Lead for final design for two emergency potable water interconnects between the City of Thousand Oaks and American Water and two reducing facilities. The interconnects include control valves, pressure relief valve, drain connections, meter, below grade vaults and associated appurtenances. As part of project, evaluated

## **Parasto Azami, PE**

### **RELEVANT EXPERIENCE (CONT.)**

multiple locations and alignments, coordinated with both agencies to obtain design requirements, and coordinated with surveying and pot-holing subconsultants.

Rehabilitation of Western Regional Sewer, Orange County Sanitation District | Fountain Valley, CA

Design Engineer for rehabilitation (CIPP) and replacement of 16 miles of sewer pipes and over 200 manholes to extend sewer system's reliable life by 50 years. Tasks included preliminary and final design, technical reports, bypass plans, construction schedule, cost estimate and specifications. Work also included coordination and attending progress review meetings with client, utility agencies and sub-contractors.

Regional Desalter Conveyance Design, Water Replenishment District of Southern California | Torrance, CA

Project Engineer for the expedited alternatives analysis and design of 2,500 LF pipelines for WRD's future Regional Brackish Water Reclamation Facility. Project included evaluation of six alternative alignments, including both trenchless and open cut approaches, and final design. The project includes preliminary and final design of a 14-inch HDPE brine line, two 24-inch HDPE product water lines, and a 34-inch HDPE source water line.

Anderson Clark Magnet High School Fire Service Line, Glendale, Crescenta Valley Water District | La Crescenta, CA

Project Engineer for design of over 2 miles of a new 8-inch waterline to provide fire service water for magnet high school new lab. This project included installing new pipeline adjacent to a residential property and near school, making community impacts and traffic control a critical design consideration.

Capital Improvement Water, Sewer, and Reclaimed Water Lines - Portola Parkway, Irvine Ranch Water District | Irvine, CA

Project Engineer for design of over 2 miles of 30-inch domestic transmission water line, 10-inch sewer line, 16-inch recycled water lines and over 200 feet of trenchless/tunneling pipe for new developments along Portola Pkwy.

Mentone Boulevard SR-38 Sewer System, City of Redlands | Redlands, CA

Design Engineer for the design of over one mile of 10-inch sewer line to provide sewer service for new senior center and library. Tasks included preparing preliminary and final design report, alternative analysis, developing plan & profile, and civil details. Conducted utility research and hydraulic calculations.

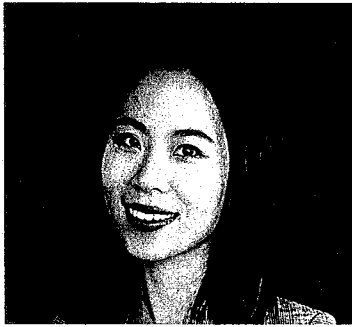
Otay 2nd Pipeline, City of San Diego | San Diego, CA

Project Engineer for design of 2 miles of new 48-inch water line and a pressure reducing facility. Designed PRV, conducted hydraulic calculations and steel pipe welding size, coordinated with vendors to obtain PRV sizing and requirements.

Well 19 Flushing Pipeline Project, East Niles Community Services District | Bakersfield, CA

Design Lead for cured-in-place (CIPP) rehabilitation of 20-inch drain line. Major tasks include reviewing CCTV and preparing plans and details, specifications, and cost estimate. Construction phase tasks included reviewing bid documents, submittals, and RFI's.





**IVY SANDERS, PE**  
SITE/CIVIL

**EDUCATION**

University of California, Berkeley  
MS Civil Engineering

University of California, Irvine  
BS Environmental Engineering

**LICENSES & REGISTRATIONS**

California Professional Engineer  
- Civil - No. C93269

**PROFESSIONAL ASSOCIATIONS**

Asian American Architects/  
Engineer Association  
(2022-Present)

Civil and Environmental  
Engineering Affiliates @ UCI  
(2022-Present, President 2021-  
2022)

Government Relations Committee,  
Orange County Branch, ASCE  
(2022-Present)

Orange County Water Association  
(2021-Present)

OC Younger Member Forum,  
Orange County Branch, ASCE  
(2020-Present)

Ms. Sanders has been contributing to water infrastructure and site civil design projects for over four years. Ivy has worked on dozens of projects across California involving pressurized and gravity pipelines, pump stations, drainage infrastructure, and spillway and dam inlet/outlet works. Ivy specializes in hydraulic analyses, system design, and preparation of plans, specifications and reports. Ivy also contributes to cost estimation, scheduling and logistics of project delivery.

**Relevant Projects**

2601 Cover Street Operations Building, Water Replenishment District of Southern California | Lakewood, CA

Project Engineer. Project consists of final design of a new 7,200 square foot pre-engineered metal Operations Building and associated site improvements, including site piping, site access, site security improvement and ADA curb ramp design. The project also involves conducting hydrology analysis and preparing hydrology report and design and construction document.

Golf Course Booster Pump Station & Wells Upgrade Project, City of Ventura Public Works | Ventura, CA

Project Engineer. Project involves hydraulic capacity evaluation and analysis of the City's existing raw water transmission pipeline, and facilities evaluation and modification design of Golf Course Wells No. 5 and 6. Specific responsibilities include reviewing upgrades/modifications that had been done to the Wells, evaluating the hydraulic capacity of the existing transmission pipeline and the pumping capability of pumps for Golf Course Wells No. 5 and 6, and designing pumping scenarios that will not exceed the existing transmission pipe's capacity. The project also involves designing site security improvement such as chain link fence and wood canopy and assessing potential of well rehabilitation for the existing wells.

Mockingbird Canyon Pipeline Emergency Repair Project, Western Municipal Water District | Riverside, CA

Project Engineer. Project involves replacing a 20-inch steel pipe that is exposed to a creek bed located east of Mockingbird Canyon Road in City of Riverside with a 20-inch HDPE pipe. The project also involves site civil design such as backfill of the exposed pipe area, installing gabions for erosion control, and earthen V-ditch to redirect the creek flow. One challenge associated with the project is to complete design and construction within a fairly short time frame for the emergency repair.

Interim Plant Buildings Improvements, Camarillo Sanitary District | Camarillo, CA

Project Engineer. Project involves designing a new mobile office trailer at the existing Water Reclamation Plant in City of Camarillo, as well as yard piping for the office trailer.

Concrete Basin Lining, Ventura County Waterworks District | Moorpark, CA

Project Engineer for the Ventura County Waterworks District No. 1's Moorpark Water Reclamation Facility upgrade project, which aims to increase the permitted tertiary capacity of the plant from 1.5 mgd to 3 mgd. This project involves converting an existing earthen percolation basin into a concrete lined recycled water storage basin and designing fill/drain piping for the basin, washdown cannons, access road to the basin, overflow spillway and a mounting system for the proposed level instrumentation.

## **Ivy Sanders, PE**

### **RELEVANT EXPERIENCE (CONT.)**

Clark Well PFAS Treatment Preliminary Design and Site Layout | Los Angeles County, CA

Project Engineer for well siting, Preliminary Design Report, and site layout for PFAS treatment (using IX system) of 1,000gpm discharge flow of Honby Well and chloramination system layout, including sizing of on-site sodium hypochlorite generation and brine, sodium hypochlorite, and liquid ammonium sulfate (LAS) tanks and calculation of required dosing of chlorine and ammonia.

Well D PFAS Treatment Preliminary Design and Site Layout | Los Angeles County, CA

Project Engineer for Preliminary Design Report and site layout for PFAS treatment (using IX system) of 1050gpm discharge flow of Well D and chloramination system layout, including sizing of on-site sodium hypochlorite generation and brine, sodium hypochlorite, and liquid ammonium sulfate (LAS) tanks and calculation of required dosing of chlorine and ammonia.

Syphon Reservoir Expansion Project, Irvine Ranch Water District | Irvine, CA

Project Engineer. Responsibilities: site civil layout and arrangement and coordination, mapping, and analysis of geotechnical and geologic investigations for the proposed 5000 ac-ft expansion of an existing recycled water dam and reservoir facility. Conducted site drainage and BMP design.

Wastehauler Station Safety and Security Improvements, Orange County Sanitation District | Fountain Valley, CA

Civil Engineer. Responsibilities: site civil layout and arrangement including sewer pipelines sizing and layout, automated waste sampler design and office trailer with ADA compliant ramps design. Also conducted hydraulic analysis for the proposed sewer system and technical report writing.

Colorado River Aqueduct Eagle Mountain & Julian Hinds Pumping Plant Water Distribution System Replacement, Metropolitan Water District of Southern California | Desert Center, CA

Project Engineer. Responsibilities: preliminary site civil layout and arrangement, water demand analysis for the proposed expansion of residential village, and design memorandum writing and quality review.







**JOSEPH REICHMUTH, PE**  
CONSTRUCTABILITY

**EDUCATION**

California Polytechnic State University, San Luis Obispo  
BS Civil Engineering

**LICENSING & REGISTRATION**

California Professional Engineer - Civil - No. C63124

**PROFESSIONAL ASSOCIATIONS**

American Society of Civil Engineers

NASSCO Certification Inspector Training and Certification Program  
- Manhole Rehabilitation  
- Cured In Place Pipe

Mr. Reichmuth is a Senior Engineer with over 22 years of design and field experience with an emphasis in pipeline and pump station design, ranging from condition assessment and rehabilitation to planning and design. Mr. Reichmuth has also been involved with the design and assessment of over 30 lift stations within the last 11 years. Pipeline design experience includes several force main designs including those with various trenchless construction methods, such as horizontal directional drilling and jack-and-bore.

**Relevant Projects**

18th Street Lift Station Replacement Project | Selma-Kingsburg-Fowler County Sanitation District, CA

Project Engineer. Project to replace an existing lift station that was constructed in the 1940's as the headworks structure to the previous WWTP. Project elements included design of a new submersible lift station and pumps, odor control facilities, force main, removal of existing wet well and concrete block building structures, installation of piping, and installation of new generator, electrical, SCADA, and motor control center.

Eastside Force Main Project, Templeton Community Services District | Templeton, CA

Project Manager. Designed and prepared construction documents for two sewage lift stations. The new lift stations diverted flow currently being conveyed to the City of Paso Robles to the District's Meadowbrook WWTP. Design included two lift stations consisting of solids handling submersible pumps, rehabilitation of an existing lift station, and a total combined force main length of over 2.5 miles. The force main included three creek crossings and crossing under Highway 101. In addition to open cut trenching of the force main the design included HDD and jack and bore construction techniques. Managed construction phase services including submittal reviews, RFI responses, progress payment reviews, and field observations.

La Cuesta Lift Station Replacement Project | Coalinga, CA

Project Engineer. Project to convert an existing lift station with above grade pumps to solid handling submersible pumps. Project elements included design of retrofitting existing wet well with new submersible pumps, above grade lift station piping, force main, electrical components, controls, and site access. Special consideration was made for maintaining bypass pumping during the conversion and minimizing risk to the City.

Lift Station Condition Assessment (12 Lift Stations), South Coast Water District | Laguna Beach, CA

Project Engineer for condition assessment of 12 lift stations for South Coast Water District. Efforts included development of a standard condition assessment form, field evaluation of all lift stations, preparation of observations and condition ratings, and uploading data and form into online ArcGIS platform. Results were used to establish over 160 projects and a 10-year implementation plan based on prioritization ranking and collaboration with District operations staff.

Lift Station No. 13 Replacement Project | Atascadero, CA

Project Manager/Engineer. The City's 2015 Wastewater Collection System Master Plan identified Lift Station No. 13 to be in need of upgrades to meet future demands and mitigate downstream odor issues. The City decided to replace the lift station in its entirety and re-route the force main. Project elements included design of a new submersible pump lift station on an adjacent property and 2 miles of new force main. Due to the topography of the force main alignment a surge analysis was

## **Joseph Reichmuth, PE**

### **RELEVANT EXPERIENCE (CONT.)**

performed and it was recommend a portion of the alignment be installed via HDD to eliminate an intermediate high spot on the force main profile.

Lift Station Assessment | Atascadero, CA

Project Engineer. Condition assessment of 4 lift stations. Work included site visits, condition ratings of all aspects of the facility, wet well capacity review and storage times, and review of pump efficiencies. Evaluations were summarized and a list of potential projects with estimated costs were developed for use in planning future capital improvement projects.

Lift Station Condition Assessment (4 Lift Stations) | Atascadero, CA

Project Engineer for condition assessment of 4 lift stations for the City of Atascadero. Lift stations were selected to be updated according to previously identified projects in the 2015 Master Plan. Efforts included development of a standard condition assessment form, field evaluation of all lift stations, preparation of observations and condition ratings, and opinion of constriction cost for recommended improvements.

Lift Station Condition Assessment (6 Lift Stations), Camrosa Water District | Camarillo, CA

Project Engineer for condition assessment of 6 lift stations for the Camrosa Water District to be used for development of a Near-Term Capital Improvements Program. Efforts included field evaluation of all lift stations and preparation of observations and condition ratings. Results were used to establish future projects based on prioritization ranking and collaboration with District operations staff.

Lift Station No. 1 Force Main Replacement Project | Arroyo Grande, CA

Project Engineer. Designed and prepared construction documents for over 3,000 feet of force main. The new force main replaces a 60 year old failing steel force main. The project is situated along the City's busiest commercial and shopping area so the use of horizontal directional drilling (HDD) was proposed to limit traffic interruptions and impacts to adjacent businesses. In addition, an alternative discharge location was identified to eliminate the requirement for crossing Highway 101.

Lift Station No. 2 Replacement Project | Atascadero, CA

Project Manager. Lift Station No. 2 is the second oldest and one of the largest lift stations within the City's collection system. Project elements included design of a new submersible lift station and pumps on an adjacent property, abandonment of the existing lift station, installation of piping, and installation of new generator, electrical, SCADA, and motor control center. Project also included construction of a new sidewalk and mitigation of relocating an existing swale identified as a wetland area.

Lift Station No. 13 Replacement Project | Atascadero, CA

Project Manager/Engineer. The City's 2015 Wastewater Collection System Master Plan identified Lift Station No. 13 to be in need of upgrades to meet future demands and mitigate downstream odor issues. The City decided to replace the lift station in its entirety and re-route the force main. Project elements included design of a new submersible pump lift station on an adjacent property and 2 miles of new force main. Due to the topography of the force main alignment a surge analysis was performed and it was recommend a portion of the alignment be installed via HDD to eliminate an intermediate high spot on the force main profile.

Margarita and Foothill Lift Station Replacements | San Luis Obispo, CA

Project Engineer. Project to replace two City sewer lift stations, involving a variety of challenges such as proximity to residences, constrained site access, traffic impacts and the need for temporary operations to maintain continuous service throughout the construction duration.



## Joseph P. Prevendar, P.E. (EE)

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### EDUCATION:

*BS Electrical Engineering, University of Washington, Seattle, WA, 1979*

*Masters in Business Administration, University of Portland, Portland, OR, 1985*

### REGISTRATION:

*Professional Electrical Engineer, Minnesota-1995; California-2001; Arizona-2007; Washington-2006; Utah-2019; Texas-2019*

**M**r. Prevendar has over 40 years experience in Electrical Engineering for industry and government. Mr. Prevendar is President of the firm and a Principal Electrical Engineer.

Mr. Prevendar has extensive experience in electrical engineering, plant engineering and maintenance management.

This includes positions with Potlatch Company as Plant Engineer, Senior Electrical Project Engineer, Lead Electrical Engineer and Engineering manager.

Mr. Prevendar's project experience includes power distribution, analog and digital process controls, motor controls, VFD's, PLC's distributed control systems, material handling, and pumping systems. A few assignments include:

- Electrical engineering services for electrical and telemetry systems for many government agencies and Districts for water pumping, treatment, wastewater facilities, flood control lift stations, emergency generators, precipitator systems, unit substations, arsenic remediation, ozone treatment, and energy conservation studies.
- Large scale interrelated analog distributed control systems for numerous processes including temperature/pressure/level-/flow, boiler fuel processing/flame safety systems/burner management, and numerous other industrial and municipal projects.