

DATE SUBMITTED 8/29/24  
 SUBMITTED BY Public Services  
 DATE ACTION REQUIRED 9/18/24

COUNCIL ACTION ( )  
 PUBLIC HEARING REQUIRED ( )  
 RESOLUTION ( )  
 ORDINANCE 1<sup>ST</sup> READING ( )  
 ORDINANCE 2<sup>ND</sup> READING ( )  
 CITY CLERK'S INITIALS ( )

**IMPERIAL CITY COUNCIL  
 AGENDA ITEM**

SUBJECT: DISCUSSION/ACTION: 1. Approve award of five (5) contracts for On Call Civil Engineering Services for City of Imperial	
DEPARTMENT INVOLVED: Public Services	
BACKGROUND/SUMMARY:  Please see attached documents: > Agenda item letter > Consultant proposals -The Holt Group -Nicklaus Engineering, Inc. -Dynamic Consulting Engineers -Albert A. Webb Associates -AZTEC Engineering Group, Inc.	
FISCAL IMPACT: NOT TO EXCEED No funds will be encumbered for the master agreements.  Services will be financed through project specific sources and applicable accounts/budgets.	FINANCE INITIALS <u>JMS</u>
STAFF RECOMMENDATION: approve request	DEPT. INITIALS <u>Ang</u>
MANAGER'S RECOMMENDATION: <u>approve</u>	CITY MANAGER'S INITIALS <u>JHM</u>
MOTION:   SECONDED: APPROVED ( ) REJECTED ( ) AYES: DISAPPROVED ( ) DEFERRED ( ) NAYES: ABSENT: REFERRED TO:	



September 18, 2024

Dear Honorable Councilmembers:

**Requested Action:**

Approve award of five (5) contracts for On Call Civil Engineering Services for City of Imperial

**Background:**

On June 26, 2024, the Public Services Department issued a Request for Proposals for On Call Civil Engineering Services in the City of Imperial (RFP #2024-04). All interested firms were to submit a proposal no later than July 26, 2024.

On or before July 26, 2024, ten (10) firms submitted a proposal. They are as follows:

No.	Proposer	Address	City
1	Dynamic Consulting Engineers	2415 Imperial Business Park Drive	Imperial
2	PSOMAS	5 Hutton Centre Drive	Santa Ana
3	C&R Associates	3900 Fifth Ave	San Diego
4	IMEG	901 Via Piemonte	Ontario
5	Albert A. Webb Associates	3788 McCray Street	Riverside
6	Rick	5620 Friars Road	San Diego
7	Aztec Engineering Group	30 Executive Park	Irvine
8	The Holt Group	1601 N. Imperial Ave	El Centro
9	ProTerra	444 South Eight Street	El Centro
10	Nicklaus Engineering, Inc	1461 Main Street	El Centro

Proposals were reviewed by staff and it is the recommendation of the department to enter into a Master Agreement with the following five (5) firms:

- The Holt Group
- Nicklaus Engineering, Inc.
- Dynamic Consulting Engineers
- Albert A. Webb Associates
- AZTEC Engineering Group, Inc.

The aforementioned firms have vast experience in providing Civil Engineering Services. They are well qualified with experienced staff and would be an asset to the City of Imperial. The master agreements will set out standard terms that apply to all the transactions entered into between both parties. With each transaction, the terms of the master agreement do not need to be re-negotiated and apply automatically. A

project specific assignment of duties or project specific terms and award will be conducted via a task order. The City Manager and/or their designee will approve task orders under this agreement. Any modification to the agreement will be returned for council approval.

**City Attorney Coordination:**

The five (5) master agreements will be prepared by City Attorney.

**Fiscal Impact:**

No funds will be encumbered for the master agreements. Services will be financed through project specific sources and applicable accounts/budgets.

**Attachments:**

- Potential awardee proposals



## CITY OF IMPERIAL

### REQUEST FOR PROPOSALS (RFP) FOR ON-CALL

### CIVIL ENGINEERING SERVICES

JULY 26, 2024

Submitted by:





James G. Holt, P.E.

Robert K. Holt, P.E.

---

Engineering ■ Planning ■ Surveying

July 26, 2024

Ms. Jenell Guerrero  
Assistant to the City Manager  
City of Imperial  
420 S. Imperial Avenue  
Imperial, California 92251

**RE: CITY OF IMPERIAL REQUEST FOR PROPOSALS (RFP) FOR ON-CALL CIVIL ENGINEERING SERVICES - THG PROPOSAL NO. 2024-035**

Dear Ms. Guerrero,

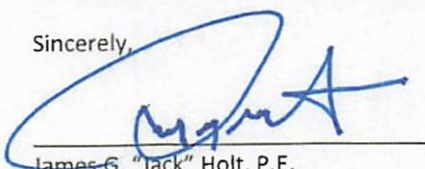
Thank you for the opportunity to respond to the City of Imperial's Request for Proposals (RFP). The Holt Group, Inc. respectfully submits this proposal for On Call Civil Engineering Services for the City of Imperial. For over 40 years, The Holt Group, Inc. has provided various types of civil engineering services for various types of civil infrastructure improvements in Imperial County.

The Holt Group has maintained an Imperial Valley Office during the last forty (40) years. Our primary emphasis is providing engineering; planning; grant administration; surveying; construction management; inspection; plan checking and mapping services to local Imperial Valley Municipalities. We currently serve as the consulting City/District Engineer for the Cities of Holtville, Calipatria, and the Heber Public Utility District and provide on-call, as needed engineering services to the City of Calexico, City of Brawley, City of El Centro, County of Imperial and the Imperial Irrigation District. The Holt Group is familiar with the local seismic, geotechnical, groundwater and extreme temperature conditions which significantly impact Engineering Projects in the Imperial Valley. Over the years, The Holt Group, Inc. has evolved Engineering Standards, Details and Specifications to address the conditions unique to the Imperial Valley.

The twenty-four (24) staff members reporting to the El Centro Office are Imperial Valley Residents. All key staff assigned to City of Imperial projects will therefore be available to respond to the City of Imperial on short notice. We at The Holt Group, Inc. take both professional and personal interest in the development and growth of the Imperial Valley. Although many consulting firms possess the technical knowledge and ability to serve the City of Imperial, we believe that the commitment of local engineers participating in local projects coupled with the knowledge of local conditions and local agency requirements results in superior engineering performance.

Thank you for the opportunity to submit this Request for Proposals (RFP) for On Call Civil Engineering Services for the City of Imperial. We look forward to further discussing The Holt Group, Inc.'s capabilities in assisting the City of Imperial with upcoming projects. Contact me if questions arise.

Sincerely,



---

James G. "Jack" Holt, P.E.  
Secretary/CFO – Principal Engineer  
The Holt Group, Inc.

## **I. GENERAL REQUIREMENTS**

### **1. COVER LETTER**

See previous page.

### **2. INTERPRETATION OF ON-CALL CIVIL ENGINEERING SERVICES TO BE PERFORMED**

The Holt Group, Inc. proposes to provide On-Call Civil Engineering Services for the City of Imperial. The Holt Group, Inc. will conduct these services in compliance with local, state, and federal standards/guidelines. The Holt Group, Inc. intends to provide high quality and accurate On-Call Civil Engineering Services which may include the review of existing City of Imperial documentation, conduct plan check reviews, preparation of various types of civil engineering design documents including but not limited to Improvement Plans, Traffic Control Plans, Striping and Signage Plans, Specifications, Quantity and Cost Estimates, Hydrology Reports, Water and Sewer Master Plans, Preliminary Engineering Reports, WPCP's, and SWPPP's. The Holt Group, Inc. will also be required to provide Bidding Support, Construction Management and Inspection Services for various types of infrastructure improvements for the City of Imperial. The Holt Group, Inc. is committed to providing its standard high quality civil engineering services to the City of Imperial in the required manner and within a specific project's time frame.

The Holt Group, Inc. has prepared and provided high quality and accurate civil engineering design and inspection services for various municipalities throughout the Imperial County and Riverside County as well as for various private clients. The Holt Group, Inc. has extensive knowledge and experience with regards to all aspects of the requested Engineering Services.

The Holt Group, Inc. will adhere to the requirements and guidelines of the City of Imperial and funding agencies associated with any specific projects.

The Holt Group, Inc. staff members have attended the Local Programs Procedures Workshops offered by the Caltrans District 11 office in San Diego and are well versed in the requirements and preparation of the Federal Aid documentation.

The offer presented within this Request for Proposals (RFP) is valid for a period of ninety (90) days.

### **3. PRIMARY INDIVIDUAL AUTHORIZED TO RESPOND TO THIS REQUEST FOR PROPOSALS (RFP)**

#### **James G. "Jack" Holt, P.E.**

The Holt Group, Inc.

Principal Engineer

Secretary/Chief Financial Officer

The Holt Group, Inc.

1601 N. Imperial Avenue

El Centro, CA 92243

Tel: (760) 337-3883

Fax: (760) 337-5997

E-Mail: [jack@theholtgroup.net](mailto:jack@theholtgroup.net)

#### **4. CONSULTANT RECOMMENDATIONS AND COMMENTS WITH RESPECT TO SERVICES TO BE PERFORMED**

The City of Imperial Request for Proposals (RFP) for On-Call Civil Engineering Services includes the complete spectrum of Civil Engineering Services. The Holt Group, Inc.'s policy is to perform high quality and comprehensive work from the initial study and design phases of a project through the bidding, construction and start-up phases of a project. A comprehensive study which accurately defines the project's scope of work and costs facilitates and accelerates the subsequent design phase. A comprehensive and technically correct Design results in lower project costs, minimal change orders and a reduced construction period.

The Holt Group, Inc.'s policy and philosophy is to complete comprehensive and accurate reports and designs followed by complete, comprehensive and detailed bidding and construction management and inspection efforts. The "extra" efforts including completing the Traffic Control Plans and SWPPP documents during design and fully investigating and following through with Utility and outside agency requirements streamline the construction process by allowing the contractors to perform what they do best; construct the project.

The Holt Group, Inc. is fully aware and cognizant of the importance of plan checks. Plan Checks are often viewed as a mechanical task which obstructs the completion of a project or are to be completed as it is a long-standing instituted policy of Cities and Districts. Correctly completed plan checks ensure that conditions imposed by the governing agency are enforced; more importantly correctly completed plan checks ensure that improvement plans, specifications and the supporting report documents and calculations are technically correct and contain sufficient information to successfully construct the intended improvements. The plan check process acts as a safety net to the design process. The plan check process ensures incompetent and lacking design documents are not allowed to proceed to the Construction Phase. Plan Checks add or clarify required information to design documents to ensure the cost of a project can be accurately identified, the project will not endanger the health and safety of the public, the project will function according to its intended purpose and the project plans, specifications, contract documents and associated reports and calculations conform with Agency, State and Federal Requirements.

It is recommended that frequent meetings be conducted between the City of Imperial and Consultant during the initial phase and/or design phase to ensure that the City of Imperial has a clear understanding and is up to date with any project issues.

It is recommended the Consultant also be responsible for communication and coordination with applicable utility purveyors and inform the City of Imperial with regards to potential issues and utility conflicts.

#### **5. CONTRACT UNDERSTANDING**

It is understood that the City of Imperial intends to select three (3) Consultants to provide On-Call Civil Engineering Services. The City of Imperial will issue Task Orders detailing the project specific scope of work which will include any and/or all civil engineering tasks set forth within the On-Call Civil Engineering Services Request for Proposals (RFP). Consultants will be required to provide a fee for each task listed within the Task Order which will total to a lump sum not to exceed fee. The City of Imperial will review the Task Order fees submitted by the Consultants for consideration of approval and issuance of a Task Order Agreement.

## II. SUMMARY OF QUALIFICATIONS AND EXPERIENCE

### 1. FIRM'S BACKGROUND

Since our firm's inception in 1984, The Holt Group, Inc. has grown into a multi-disciplined firm offering a complete range of Professional Engineering, Surveying, Planning, Construction Management and Inspection and Grant Administration for residential, commercial, governmental and institutional sector clients. The Holt Group, Inc. maintains an office in both El Centro and Blythe, California. For over 40 years, The Holt Group, Inc. has served several local municipal clients, including the Cities of Blythe, El Centro, Calexico, Calipatria, Imperial, Brawley, Holtville and Westmorland, in addition to numerous varied private clients. The Holt Group has been engaged by the County of Imperial for the last several years per its on-call engineering contract. We currently serve as Consultant City Engineer and Planners for the Cities of Holtville and Calipatria, as well as for the Heber Public Utility District.

Civil Engineering, Surveying, Construction Management and Planning Services have been a central focus of The Holt Group, Inc. since our inception in 1984. The Holt Group, Inc. has completed numerous public works projects, including street rehabilitation improvements, street maintenance improvements, new street improvements, water pipeline improvements, sewer pipeline improvements, stormwater pipeline improvements, sanitary sewer pump station improvements, stormwater pump station improvements, park improvements, water treatment plant improvement/expansion projects, wastewater treatment plant expansion/improvement projects, sidewalks improvements and similar projects. Engineering design for municipal projects completed by The Holt Group, Inc. includes the preparation of improvement plans (including traffic control plans, utility plans, grading and erosion plans, striping plans and various types of plans dependent on the specific requirements of the project), specifications, and contract documents. Our firm provides complete preliminary engineering, design engineering, bidding, construction management and resident engineering and inspection services. Our firm has also prepared applicable calculations, hydrology studies, Storm Water Pollution Prevention Plans (SWPPP), Storm Water Best Management Practices (BMP's), feasibility studies, preliminary engineering reports and various other reports or calculations. The Holt Group, Inc. has also completed various types of survey documents and design and construction surveying for a variety of projects.

Our firm prides itself in protecting the interests of our municipal clients from overcharging by contractors, and from substandard construction work. We believe that a high quality and complete set of plans and specifications minimizes unknown factors for the contractor during the bidding processes, thereby resulting in lower initial bids and minimal change orders during the construction processes. Considerable cost savings are thereby realized by our municipal and governmental clients.

As City and District Engineers for Southern California Communities during the last 40 years, The Holt Group, Inc. has completed the full range of plan checking services including the reviews of Tentative Maps, Improvement Plans, Parcel Maps, Tract Maps, Reports, Calculations, Cost Estimates, Parcel Map Waivers, Lot Line Adjustments, Easements, and similar documents. The Holt Group, Inc. is aware of the sensitivity and importance of conducting comprehensive, timely plan checks. The Holt Group, Inc. Staff is experienced with regards to plan check process requirements and procedures.

For projects funded by grants from State and Federal agencies, The Holt Group, Inc. has offered comprehensive services from initial grant application, grant administration, design and bidding of the project, construction management, resident engineering and inspection and labor standards compliance. We have provided these types



of grant related services locally for the Cities of El Centro, Calipatria, Westmorland, Brawley, Holtville and the Heber Public Utility District. Our firm is familiar with the Federal overlay requirements for Federally-funded or assisted grants.

## **2. OWNER'S OF FIRM**

The Holt Group is an S Corporation in the State of California. Its corporate officers and contact information are as follows:

James G. "Jack" Holt, P.E.  
Secretary/Chief Financial Officer  
The Holt Group, Inc.  
Corporate Headquarters  
1601 N. Imperial Avenue  
El Centro, CA 92243  
Tel: (760) 337-3883  
Fax: (760) 337-5997

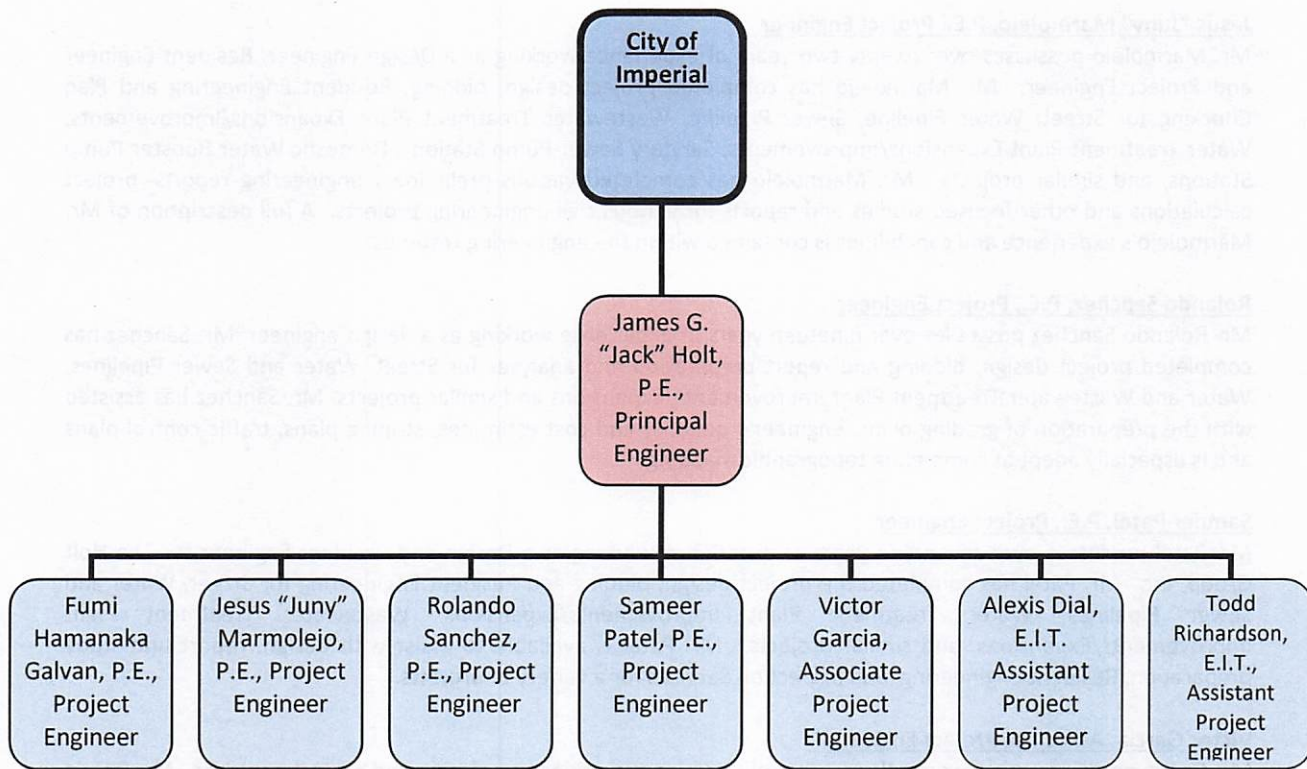
Robert K. Holt, P.E.  
President  
The Holt Group, Inc.  
201 E. Hobsonway  
Blythe, CA 92225  
Tel: (760) 922-4658  
Fax: (760) 922-4660

## **3. OFFICE LOCATION AND COMPANY STAFF**

The Holt Group, Inc.  
1601 N. Imperial Avenue  
El Centro, CA 92243  
Tel: (760) 337-3883  
Fax: (760) 337-5997

Number of Employees in El Centro Office:  
24

Note: The Holt Group, Inc. proposes to complete services requested by the City of Imperial from The Holt Group El Centro Office. The Holt Group, Inc. also maintains an office in Blythe, California. Employees from the Blythe Office are available to perform services for the City of Imperial, if so required, for labor intensive projects and/or projects running concurrently. The following is the organizational chart of the El Centro Engineering Staff to be assigned to City of Imperial Projects. Junior Engineers, AutoCAD Draftsman, Interns and other support personnel have not been illustrated on the organizational chart.



**4. QUALIFICATIONS & RESUMES OF INDIVIDUALS ASSOCIATED WITH THIS PROPOSAL**

The Holt Group, Inc.’s team of diversified, highly qualified professionals possesses the necessary technical skills, experience, motivation and communicative ability to provide the City of Imperial with responsive, high quality **On Call Civil Engineering Services**. The following is a brief overview of the key personnel that will be providing these services to the City of Imperial:

**James G. "Jack" Holt, P.E., Principal Engineer**

Mr. Holt is a Registered Civil Engineer in the State of California with forty-seven years of municipal engineering experience. Mr. Holt has extensive experience in both municipal and private projects and has worked on street improvement projects, water system and sewer system expansion/improvement projects, water, sewer and stormwater pipeline projects and park improvement projects for the Cities of Westmorland, Calipatria, Brawley, Holtville, Calexico, El Centro, Imperial and Seeley County Water District, Heber Public Utility District, Niland County Sanitation District and City of Imperial. Mr. Holt will be the primary Holt Group contact person for the City of Imperial. His resume is enclosed herein.

**Fumi Hamanaka Galvan, P.E., Project Engineer**

Ms. Galvan has been with The Holt Group, Inc. for over twenty-three years. Since joining The Holt Group, Ms. Galvan has completed the engineering design and plan checking of numerous residential and commercial subdivisions, roadway projects, and sewer, water and stormwater facility improvement projects. Ms. Galvan has completed SWPPP’s, hydrology studies, DBE calculations, traffic control plans and various other studies, reports and plans for various civil engineering projects. Ms. Galvan is familiar with Local Assistance Procedures Manual requirements for Caltrans related projects. Ms. Galvan will be the project manager for various City of Imperial projects if selected. Her resume is enclosed herein.

**Jesus "Jury" Marmolejo, P.E., Project Engineer**

Mr. Marmolejo possesses over twenty-two years of experience working as a Design Engineer, Resident Engineer and Project Engineer. Mr. Marmolejo has completed project design, bidding, Resident Engineering and Plan Checking for Street, Water Pipeline, Sewer Pipeline, Wastewater Treatment Plant Expansions/Improvements, Water Treatment Plant Expansions/Improvements, Sanitary Sewer Pump Stations, Domestic Water Booster Pump Stations, and similar projects. Mr. Marmolejo has completed various preliminary engineering reports, project calculations and other focused studies and reports for various civil engineering projects. A full description of Mr. Marmolejo's experience and capabilities is contained within the engineering resumes.

**Rolando Sanchez, P.E., Project Engineer**

Mr. Rolando Sanchez possesses over nineteen years of experience working as a design engineer. Mr. Sanchez has completed project design, bidding and report preparation and analyses for Street, Water and Sewer Pipelines, Water and Wastewater Treatment Plant Improvements/Expansions and similar projects. Mr. Sanchez has assisted with the preparation of grading plans, engineer's quantity and cost estimates, striping plans, traffic control plans and is especially adept at completing topographic mapping.

**Sameer Patel, P.E., Project Engineer**

Mr. Patel possesses over seventeen years of experience working as a Design and Resident Engineer for The Holt Group, Inc. Mr. Patel has completed the project design, bidding and Resident Engineering for Street, Water and Sewer Pipelines, Water Treatment Plant Improvements/Expansions, Wastewater Treatment Plant Improvements/Expansions, and similar projects. Mr. Patel is available to assist with design, report and study preparation, Resident Engineering, and Inspection Services for a variety of projects.

**Victor Garcia, Associate Project Engineer**

Mr. Garcia possesses over twenty-three years of experience working as a design and project engineer. Mr. Garcia has also completed numerous plan checks. His experience ranges from plan checking and designing street improvements, grading plans and stormwater, domestic water, and sanitary system pipeline improvement designs. Mr. Garcia has completed numerous SWPPP, BMP, studies, reports, and calculations for various civil engineering projects. Mr. Garcia is fully versed with the latest ADA and Caltrans design requirements.

**Todd Richardson, E.I.T., Assistant Project Engineer**

Mr. Todd Richardson possesses over ten years of experience completing the Design, Construction Management and Field Inspection Services for Street and Roadway; water, sanitary sewer and stormwater pipeline facilities and water and wastewater treatment facilities. Todd has assisted with the completion of project reports, quantity and cost estimates, submittal reviews and wastewater treatment plant operation and maintenance manuals.

**Alexis Dial, E.I.T., Assistant Project Engineer**

Ms. Alexis Dial possesses over five years of experience working as an Assistant Project Engineer. Ms. Dial has completed project design, bidding and report preparation and analyses for Street, Water and Sewer Pipelines, Water and Wastewater Treatment Plant Improvements/Expansions and similar projects. Ms. Dial has assisted with the preparation of grading plans, engineer's quantity and cost estimates, striping plans, traffic control plans and is especially adept at completing Stormwater Pollution Prevention Plans (SWPPPs) and Water Pollution Control Program (WPCPs) Reports.



**EDUCATION**

**BS, Civil Engineering, 1977** University of Michigan,  
Ann Arbor, Michigan

**REGISTRATIONS**

Registered Civil Engineer,  
R.C.E. # 31773, California

Registered Civil Engineer,  
R.C.E. # 25315, Arizona

California QSP & QSD SWPPP Certification  
# 20198

**PROFESSIONAL ORGANIZATIONS**

American Society of Civil Engineers  
Water Pollution Control Federation

Water Pollution Control Federation

American Water Works Association

American Concrete Institute

**PROFESSIONAL PRACTICE**

**THE HOLT GROUP, INC.**  
El Centro, California  
1983 – present

**MAINIERO, SMITH & ASSOCIATES**  
Palm Springs, California  
1979 – 1983

**PERLA STOUT ASSOCIATES, INC.**  
Traverse City, Michigan  
1977 – 1979

**JOHN C. LINTON & ASSOCIATES**  
Traverse City, Michigan  
1974 – 1977

**GENERAL QUALIFICATIONS**

Mr. James G. "Jack" Holt offers over forty-seven years of engineering, surveying, project administration and construction management experience. Mr. Holt currently manages The Holt Group El Centro office. Mr. Holt's responsibilities include the daily administration of the offices and engineering projects in conjunction with senior principals of the staff. He has been responsible for the design, administration and construction management of various municipal civil engineering projects in California and Arizona since 1979 including water and wastewater treatment plant expansions, wastewater pump stations, domestic booster pump stations, water and wastewater pipeline projects and numerous street and roadway improvement projects for the Cities of Brawley, Blythe, Calipatria, Calexico, Westmorland, El Centro, Imperial, and Holtville, the Heber Public Utility District, the Niland Sanitary District, the Jacumba Community Services District, the Cibola Water District, the Palo Verde County Water District, the Town of Quartzsite and the County of Imperial.

**RELEVANT EXPERIENCE**

Mr. Holt has completed comprehensive street reports identifying the type of street improvements and associated cost for each street section comprising the roadway system for the Cities of Holtville, Calipatria, and Westmorland. Mr. Holt has completed the design, bidding and construction management/resident engineering services for over sixty (60) street improvement projects during the last forty (40) years in the Imperial Valley. Mr. Holt is familiar with Street maintenance improvements (SAMI's, crack sealing, slurry seal coats), and street rehabilitation (cold recycling, A.C. pulverizing, glass grid, petromats, lime treated base, cement treated base, A.C. overlays and ARAM overlays). Mr. Holt has completed the design and construction management of numerous wastewater pump stations, stormwater pump stations, wastewater treatment plants and water treatment plants projects. Mr. Holt completed the design of the Niland and Seeley townsite street maintenance design in 2013, Winterhaven street maintenance design in 2014, Ocotillo street maintenance design in 2014, Desert Shores street maintenance Design in 2015, and the Bombay Beach Bombay Beach rehabilitation design in 2022. The street maintenance designs were completed for the County of Imperial and included between 5 to 8 miles of roadway improvements within the communities. Mr. Jack Holt also recently completed the design of the Niland Wastewater Treatment Plant and Collection System Improvement Project and the Gateway of the Americas Water Treatment Plant Improvements Project.



PROJECT ENGINEER

**EDUCATION**

**BS, Civil Engineering, 2000**  
Oregon Institute of Technology  
Klamath Falls, Oregon

**BS, Civil Engineering, 2002**  
Muroran Institute of Technology  
Hokkaido, Japan

**REGISTRATIONS**

Registered Civil Engineer,  
R.C.E. # 68390, California

Professional Land Surveyor,  
P.L.S. #8990, California

California QSP and QSD  
Certification # 20331

**PROFESSIONAL ORGANIZATIONS**

American Society of Civil Engineers

**PROFESSIONAL PRACTICE**

**THE HOLT GROUP, INC.**  
El Centro, California  
2000 - Present

**GENERAL QUALIFICATIONS**

Ms. Galvan has over twenty-three years of experience in the civil engineering field which includes providing field surveying, design, plan checking, record research, construction management and project management services. Since joining The Holt Group, Ms. Galvan has completed the preparation of hydrology and hydraulic analyses, stormwater pollution and prevention plans, traffic control plans, engineer's quantity and cost estimates, preparing and processing of bidding/contract documents of numerous residential and commercial subdivisions, roadway projects, and wastewater, water and stormwater facility improvement projects. Ms. Galvan has also completed a variety of work tasks including supervising the junior engineering staff, project management, preparing bidding documents and specifications, communicating with stakeholders for the project specific compliance requirements, obtaining permits, and reviewing the final plans and design documents for quality assurance.

**RELEVANT EXPERIENCE**

***Client: City of Brawley***  
***Project: Bus Shelter Improvement Project***  
***Location: Brawley, California***

Ms. Galvan was responsible for completing in-house QC/QA plan check after the improvement plans were completed for The City of Brawley Bus Shelter Project. Ms. Galvan prepared the Specifications, bid documents, contract documents and forms in accordance with the guidelines provided by the funding agency. Ms. Galvan also coordinated with the funding agency's representative, ICTC and the City of Brawley to review the compliance with the funding agency's requirements.

***Client: City of Holtville***  
***Project: City Wide Street Improvement Project – Phase I & II***  
***Location: Holtville, California***

Ms. Galvan has also completed engineering design services for the City of Holtville City Wide Street Improvement Project Phase I & II. Ms. Galvan was responsible for obtaining field work, preparing the project improvement plans including the development of the traffic control plan, specifications and contract documents, preparation of the engineer's quantity and cost estimate, coordinating with local utility purveyors and governmental agencies, coordination with the City Public Works Staff, participation throughout the bidding process including the processing of the contract documents and providing construction management and payment processing services. The project included infrastructure improvements for the improvement of the entire City of Holtville Street System.

***Client: City of Calipatria***

***Project: Bond Financed Street Rehabilitation Project***

***Location: Calipatria, California***

Ms. Galvan completed the design and bidding services for the City of Calipatria Bond Financed Street Improvement Project. In conjunction the project identified nine (9) rehabilitation street sections within the Calipatria City Limits to be improved. Ms. Galvan and The Holt Group Principal Engineer jointly completed the coordination of the design survey work, design of the improvement plans, the engineer's quantity and cost estimates, the specifications, and assisted with the project bidding phase.

***Client: City of El Centro***

***Project: South Imperial Avenue Water Pipeline Improvements and Drainage Pipeline Installation Project***

***Location: El Centro, California***

Ms. Galvan completed design services for the South Imperial Avenue Water Pipeline Improvements and Drainage Pipeline Installation Project. Ms. Galvan was responsible for the preparation of the Improvement Plans for the replacement of an 18-inch diameter water pipeline along South Imperial Avenue including the directional drilling of the 18-inch diameter water pipeline beneath Interstate 8. Ms. Galvan was responsible for the design and bidding phases of the project including the preparation of the plans, specifications, and bid forms. Ms. Galvan was responsible for interfacing with Caltrans regarding the water pipeline installation and directional drilling requirements within the Interstate 8 Right of Way, interfacing and coordinating the stormwater pipeline design with Caltrans and The Imperial Irrigation District, and completing the background investigatory work to secure the easements for the stormwater and water pipelines. Ms. Galvan also assisted the City of El Centro in providing the back-up information required by Caltrans for reimbursing the City with the design and construction costs of the project within Caltrans Right of Way.

***Client: City of El Centro***

***Project: Extension of Imperial Avenue South from Interstate 8 to McCabe Road – Phases I and II***

***Location: El Centro, California***

Ms. Galvan completed design services for Extension of Imperial Avenue South from Interstate 8 to McCabe Road – Phases I & II Project. Ms. Galvan was responsible for the preparation of the Improvement Plans, Specifications and Estimates for the construction of the new roadway infrastructure from Interstate 8 to Danenberg Road. Ms. Galvan was responsible for coordinating with various utility purveyors during the design phase regarding the relocation of existing facilities to accommodate the extension Imperial Avenue. Ms. Galvan assisted the City of El Centro with the bidding phase of the project which included chairing the Pre-Bid Conference, responding and addressing RFI's through addenda, coordinating with various Contractors, and other bidding services. Ms. Galvan also assisted the City of El Centro and Construction Management Consultant during the construction phase of the project.



RESIDENT ENGINEER / PROJECT  
ENGINEER

**EDUCATION**

**BS, Civil Engineering, 2002**  
California State University at  
Long Beach  
Long Beach, California

**CERTIFICATIONS**

Registered Civil Engineer,  
R.C.E. # 80410, California

**PROFESSIONAL PRACTICE**

**THE HOLT GROUP, INC.**  
El Centro, California  
August 2002 - Present

**KPFF CONSULTING ENGINEERS**  
Long Beach, California  
June 2001 – August 2002

**GRANITE CONSTRUCTION**  
El Centro, California  
June 1998 – August 1998

**RANDELL'S CONSTRUCTION**  
El Centro, California  
June 1993 – January 1998

**GENERAL QUALIFICATIONS**

During Mr. Marmolejo's tenure at The Holt Group, he has prepared and managed multiple engineering studies, prepared improvement plans, prepared specifications and contract documents, and has provided construction management services for various types and magnitudes of civil infrastructure including water and wastewater treatment plants, pump stations, retention basins, water distribution, sewer and stormwater collections systems, and street infrastructure.

Mr. Marmolejo has extensive knowledge and command of various civil engineering activities which include Preliminary Engineering Reports, Improvements Plans, Contract Documents, Specifications, Storm Water Pollution Prevention Plans, Quantity Estimates and Cost Estimates, Environmental Reports, Engineering Calculations, Surveying, Construction Inspection and Observation, and Meeting and Coordination between Clients and Contractors.

Mr. Marmolejo has completed project coordination efforts with various public agencies including the County of Imperial, Imperial Irrigation District (water and power departments), AT&T, Time Warner Cable, The Gas Company, Caltrans, Regional Water Quality Control Board, SWRCB's Division of Drinking Water, and various City agencies.

Mr. Marmolejo is The Holt Group's Manager of Construction Activities and oversees construction related projects. Construction Management responsibilities managed by Mr. Marmolejo include the administration of pre-construction conferences and progress meetings, observation and inspection of construction activities, preparation of daily construction activity logs, materials and equipment inventory, submittal review of equipment and material, review and response to RFI's, review and processing of change orders, review and processing of contractor's payment requests, preparation of as-built drawings, building and agency permit coordination and environmental review, commissioning and start-up of facilities, close-out of project and project records filing and archiving, coordination of project survey requirements, structural review, labor compliance and monitoring services (as required).

## **RELEVANT EXPERIENCE**

***Client: City of Holtville***

***Project: Water Treatment Plant Improvements Project***

***Location: Holtville, California***

Mr. Marmolejo completed the project management services and daily inspections for the project. The project consisted of the recoating of the deteriorated condition of the existing 2.4 MG Water Storage Tank's interior walls; installation of a Trihalomethane Removal System within the 2.4MG Water Storage Tan to reduce trihalomethanes, a disinfection by-product, within the distributed potable water; installation of a baffle system within the 1.5 MG Water Storage Tank to increase the disinfection process' chlorine contact time; installation of new finished water piping to allow the water storage tanks to operate in series; installation of a shade structure over the clarifier/mix media filters to deter algae growth within the open tank; the replacement of two (2) outdated emergency standby generators; and replacement the electrical and instrumentation controls of the water treatment plant's various processes. Mr. Marmolejo monitored the construction schedule, completed daily inspections, coordinated with County Representatives, chaired weekly project meetings, coordinated with the Contractor and geotechnical entities, monitored traffic control activities, completed submittal reviews, reviewed Payment Requests and Change Order Requests as submitted by the Contractor, completed As-Built Plans and other project completion related documents amongst other items.

***Client: County of Imperial - ICWED***

***Project: Poe Colonia Wastewater Treatment Plant Improvements Project***

***Location: 3 miles west of Brawley, California***

The Holt Group, Inc. was contracted by the County of Imperial - Workforce and Economic Development (ICWED), to provide construction management services for the Poe Colonia Wastewater Treatment Plant (WWTP) Improvements Project. The Poe Colonia WWTP serves an existing residential development of approximately 53 residential homes that is located in rural and farming area just 3 miles west of Brawley, California. The Poe Colonia WWTP is located just in the in the northern area of the residential development, and is operated and maintained by the County of Imperial Public Works Department. The project consisted of replacement of the following processes: Pumps and their perspective on/off float switches; Textile filter treatment units; Wastewater subsurface drip distribution system; Flowmeters; Control valves; and Electrical and control components. Currently, the existing wastewater is being discharged into an emergency basin within the WWTP, and completion of the improvements will allow for reinstatement of the WWTP processes to bring within compliance of the California Regional Water Quality Control Board's Waste Discharge Requirements. The project construction cost is \$317,000.

Mr. Marmolejo managed the construction management and inspection services of the project. Mr. Marmolejo conducted daily inspections of the construction work and noted as-built changes to the design plans. Mr.



Marmolejo coordinated with ICWED, County of Imperial Public Works, and WWTP Operators in regard to the construction progress, construction issues, and changes to the construction via construction activity logs, phone conversations, and progress meetings. Mr. Marmolejo coordinated with the Design Engineer for concurrent approval of design changes and material / equipment submittals. Mr. Marmolejo coordinated for approval of payment requests. Mr. Marmolejo coordinated with ICWED for approval of payment requests.

***Client: Seeley County Water District***

***Project: Water Distribution System Improvements***

***Location: Seeley, California***

The Holt Group, Inc. was contracted by the Seeley County Water District (SCWD) to provide design engineer services for the Water Distribution System Improvements Project. The design was tailored for the replacement of approximately 5,100 lineal feet of aged and deteriorated water distribution pipelines within the southwest area of Seeley, California. The project construction cost was 1.0 million dollars. The project replaces under capacitated 4-inch diameter ACP pipelines with new 8-inch and 1 -inch diameter PVC pipelines that meet the latest State of California's Code of Regulations. The design of the water pipeline addresses the increased flow for fire hydrants, addition of fire hydrants to meet standards, and looping of dead-end water lines to lower disinfection by-products such as total trihalomethanes (TTHMs). The scope of work included the coordination and approval of the design with County of Imperial Public Works as the project is conducted with the County of Imperial's Road Right Of Way.

Mr. Marmolejo managed the preparation of the improvement plan sheets, technical specifications, special provisions, contract and bidding documents. The improvements plan sheets include plan and profile drawings of the water pipelines, traffic control plans, erosion control plans, water pipeline connection details, and County of Imperial Public Works Department's special provisions and roadway repairs. The technical specifications provide the requirements for all materials and various processes, such as as-builts and submittals, that are to be provided for the project. The Special Conditions include instructions for project specific concerns such as the Contractor's requirement to attain an Encroachment Permit with the County of Imperial Public Works Department, attain a Customer Service Proposal with Imperial Irrigation District's Power Division to hold power poles while working adjacent to them, and keeping the existing water pipeline in service until such time the new water pipelines are installed. The Contract Documents are prepared to include the Agreement between the Owner and Contractor, as well as the requirements of the U.S. Department of Housing and Urban Development's (HUD) Community Development Block Grant (CDBG) Colonias Set-Aside program. The bidding documents are prepared to outline the bidding protocols, such as bid timelines and wage rate requirements, for the prospective bidders to abide by.

***Client: City of Calexico***

***Project: Initial Assessment of Sewer Lift Stations No. 9 and No. 11***

***Location: Calexico, California***

The Holt Group was contracted to conduct an Initial Assessment of Sewer Lift Station Nos. 9 and 11 that are a part of the City of Calexico's sanitary sewer collection system. The project consisted of a preliminary engineering assessment to verify and evaluate two (2) sewer lift stations and their perspective upstream gravity pipelines and downstream forcemain pipelines. The sewer lift stations and pipelines serve existing residential, commercial, and industrial facilities along the northern area of Calexico. The assessment was requested by the City of Calexico in part to high maintenance to operate the pump stations and pipelines, as well as being and integral facilities for future residential developments. The engineer's opinion of probable cost for rehabilitation of each lift station and perspective piping was calculated to be \$2.4 million.

Mr. Marmolejo managed a team of engineers to prepare the initial assessment report that detailed the following. The verification of existing facilities required on-site review of the pump stations and perspective pipelines with wastewater operators and Packaged Pump Manufacturer. As there was no flowmeter to measure flow of wastewater, Mr. Marmolejo managed an engineering team to analyze sewer flows by timing the operation of pumps throughout a 16 hour period peak time period. The engineering team was then able to evaluate the acceptance and conveyance of existing and increased sewer flows. The engineering team compiled the recommendations for rehabilitation pump stations and replacement of upstream and downstream sewer pipelines. An engineer's opinion of probable cost estimate was provided as reference to construct the recommended improvements. The Holt Group engineering staff and City staff met and reviewed the assessment report in various phases of the initial assessment.

***Client: County of Imperial***

***Project: Heber Avenue Roadway Improvements Project between Correll Road and Fawcett Road***

***Location: Heber, California***

Mr. Marmolejo completed the project management services and daily inspections for the project. The project improvements consisted of the demolition and removal of existing A.C. pavement and underlying base material within pavement failure areas, grinding of existing A.C. pavement at various depths, demolition and removal of existing concrete infrastructure, installation of class II base within the pavement failure areas, installation of new A.C. pavement along the roadway section, crack sealing and slurry seal coating, installation of new curb and gutter, installation of new cross-gutters, installation of new sidewalk, installation of signage and striping, and adjustment of water valves and sanitary sewer manholes to finished grade. Mr. Marmolejo monitored the construction schedule, completed daily inspections, coordinated with various utility purveyors and County Representatives, chaired weekly project meetings, coordinated with the Contractor and geotechnical entities and monitored traffic control activities amongst other items.

**Victor Garcia**

The Holt Group, Inc.



ASSOCIATE PROJECT ENGINEER

**EDUCATION**

**BS, Civil Engineering, 2000** California State Polytechnic University, Pomona  
Pomona, California

**PROFESSIONAL PRACTICE**

**THE HOLT GROUP, INC.**

El Centro, California  
2000– August 2018  
March 2020 - Present

**CITY OF BRAWLEY**

Brawley, California  
August 2018 – February 2020

**NICKLAUS ENGINEERING**

Yuma, Arizona  
1998-2000

**GENERAL QUALIFICATIONS**

Victor Garcia graduated from California State Polytechnic University, Pomona with a degree in Civil Engineering. He is currently engaged in a number of projects in the Imperial Valley. His experience ranges from plan checking to roadway and subdivision design, stormwater, domestic water and sanitary system improvements. Mr. Garcia is responsible for reviewing geotechnical reports related to subgrade analysis, subsurface soils, and water table conditions for the design of streets, water pipeline and sanitary sewer pipeline projects.

**RELEVANT EXPERIENCE**

***Client: AECOM***

***Project: California State Department of Corrections – Ironwood State Prison – HVAC Chilled Water System Project***

***Location: 13 miles west of Blythe, California***

The Holt Group was a sub-consultant to AECOM for the State of California Department of Corrections Ironwood State Prison, Heating, Ventilation and Air Conditioning System project. The project construction cost was 142 million dollars and involved replacing the prison's deteriorated evaporative cooling system with a Heating, Ventilation and closed loop chilled water Air Conditioning (HVAC) system at the Ironwood State Prison located approximately 13 miles west of Blythe, California. The new HVAC system was to be connected to and supported 20 large housing structures and the majority of the other prison institutional support structures. The main components of the HVAC consisted of a large chiller plant and a closed looped underground water pipeline system to deliver and return the chilled water to the chiller plant. The Holt Group's subconsultant task was to complete the Civil grading design and plans for different HVAC support areas and to prepare the plan and profile chilled water pipeline plans for the HVAC system.

Mr. Garcia was the project design engineer for this project. Mr. Garcia completed the overall coordination and design oversight for the preparation of the plan and profile chilled water pipeline drawings and Civil Grading plans. Mr. Garcia coordinated the project design survey and completed a review of As-Built plans and conducted site visits with the prison maintenance staff to accurately locate existing utilities during the initial design phase. Mr. Garcia was the main contact person for the coordination of the chilled water pipeline and grading plan design with the AECOM Mechanical and Electrical Engineering Staff. Mr. Garcia also completed the project specifications and engineers' cost estimate of the chilled water pipeline and grading areas.

***Client: Morongo Band of Mission Indians***

***Project: Morongo Commercial Suites***

***Location: Morongo Band of Mission Indians Reservation near Banning, California***

Mr. Garcia was the Project Engineer responsible for the completion of the Civil Engineering grading plans, utility plans, erosion control plans and traffic control plans for the Morongo Band of Mission Indians Commercial Suites Project close to Interstate 10 near Banning, California. The project consisted on the construction of a 9,000 square foot commercial suites facility in which restaurant facilities were located. The project was within the developed area of the Morongo Band of Mission Indians reservation close to mountainous terrain. Portions of the site topography possessed steep slopes resulting in significant challenges in preparing the grading plans and ADA required facilities. A combination of sloped terrace areas and retaining walls was employed to complete the grading plan design. There were also existing dry utilities including two (2) 30 inch diameter intercontinental gas pipelines which passed through the project site. Extra precautions were taken during the design period to avoid conflict with the extremely large high pressure gas pipelines. The construction cost for this project was 5.1 million dollars. The Civil construction costs for the project was 1.6 million dollars.

Mr. Garcia was responsible for the overall preparation of the grading plans, horizontal control data, erosion control plans, water, sewer and stormwater (wet utility plans) and traffic control plans. Mr. Garcia completed the design of all ADA facilities and reviewed and coordinated the path of travel with the Project Architects and Client. Mr. Garcia coordinated the slope grading around the perimeter of the project and the parking lot design with the Client and Project Architect. Mr. Garcia also prepared the technical specifications and civil engineering cost estimate for the project.

***Client: City of Holtville***

***Project: Grape Avenue Improvement Project***

***Location: Holtville, CA***

Mr. Garcia was responsible for preparation of the project improvement plans and the preparation of the project quantity and cost estimates. The project consisted but was not limited to the construction demolition of the existing roadway section, widening of the roadway section, installation of new roadway infrastructure including Class II Base and Asphalt Concrete, installation of sidewalk, curb and gutter, curb returns, driveways and cross gutters and utility relocation.



RESIDENT ENGINEER / PROJECT  
ENGINEER

**EDUCATION**

**BS, Civil Engineering, 1991**  
University of Pune at  
Pune, India

**MS, Civil Engineering, 2007**  
Wayne State University at Detroit,  
Michigan

**REGISTRATIONS**

Registered Civil Engineer,  
R.C.E.# C81443, California

**PROFESSIONAL PRACTICE**

**THE HOLT GROUP, INC.**  
El Centro, California  
August 2007 - Present

**SUGAM CONSTRUCTION, LTD**  
India  
August 1991 – May 2003

**GENERAL QUALIFICATIONS**

Mr. Sameer Patel obtained a Bachelor of Engineering degree in Civil Engineering from the University of Pune in India and a Master of Science Degree in Civil Engineering from Wayne State University in Detroit, Michigan. Mr. Patel has over thirty-one years of experience in the civil engineering and construction management field. Mr. Patel has performed duties including surveying, design and construction management services for various infrastructure improvement projects. Mr. Patel has assisted with the preparation of various SWPPP documents, grading plans, civil engineering analyses, specifications and improvement plans.

Mr. Patel's construction management experience while at The Holt Group includes: preparation of bidding/contract documents; and completion of standard Resident Engineering functions including preparing daily project reports, submittal review, obtaining daily project photographs, responding to contractor RFI's, reviewing/approving contractor payment requests, verifying elevations and grades, completing daily inspection work, reviewing/responding to change order requests, participating in project status meetings, and similar related activities.

**RELEVANT EXPERIENCE**

***Client: City of Calexico***

***Project: Cesar Chavez Boulevard Improvements Project***

***Location: Calexico, California***

Cesar Chavez Boulevard extends for a distance of approximately 4,800 feet from Birch Street/Highway 98 to Second Street. The new United States/Mexico border crossing entrance is located at the south intersection of Second Street and Cesar Chavez Boulevard. The improvement of Cesar Chavez Boulevard was a major roadway improvement in the City of Calexico as it provided the main thoroughfare to and from the new United States/Mexico Border Crossing after its' completion. Cesar Chavez Boulevard was improved from a two (2) lane roadway to a six lane roadway with three (3) traffic lanes in each direction. The north end of the project included improvements within Birch Street/Highway 98 and a Caltrans Encroachment Permit as required. The project was funded with Federal Highway Administration Funding and LAPM guidelines were observed and required for the project. The total project construction cost was \$7,500,000.

The project included the relocation of utilities, modification of stormwater flowlines and stormwater catch basin and pipeline installation, preparation of IID CSP Electrical Plans for utility relocations, preparation of Traffic Control Plans and similar items that are typically completed and illustrated on the design plans. It was necessary for Mr. Patel, as Resident

Engineer, to complete these work tasks in addition to the typical construction management tasks, The completion of these work tasks by Mr. Patel allowed the project construction to continue with minimal interruptions.

Mr. Patel completed the more typical resident engineering services and daily inspections for the project. The project improvements consisted of excavation, placement and compaction of fill materials, asphalt paving over base, concrete infrastructure construction including sidewalk, curb and gutter and ADA curb returns, utility relocation, street light installation, construction of median K-rails, retaining wall and block wall, traffic signal modification, installation of traffic signal, mast arms, foundations and signage and striping. Mr. Patel monitored the construction schedule, completed daily inspections and prepared daily inspection reports, chaired weekly project meetings, coordinated with the Contractor and geotechnical entities and monitored traffic control activities. Mr. Patel completed submittal reviews, reviewed Payment Requests and Change Order Requests as submitted by the Contractor, completed As-Built Plans and other project completion related documents amongst other items.

***Client: Heber Public Utility District***

***Project: 2 MGD Water Treatment Plant Expansion***

***Location: Heber, California***

Mr. Patel completed the Assistant Resident Engineering for the Heber Public Utility District 2 MGD Water Treatment Plant Expansion. Mr. Patel was present at the project site on a daily basis until the project's completion. The project increased the Heber Public Utility District Water Plant Capacity from 2 Million Gallons per Day to 4 Million Gallons per Day. The \$8,500,000 project was funded by the State Revolving Fund through the State of California Water Resources Control Board, Division of Drinking Water. The Holt Group assisted with the SRF Administrative work associated with this project.

The Water Treatment Plant Expansion including installing a new 2 MGD filtering facility and the associated chemical systems and inlet and outlet piping and automated valves. A new sedimentation/coagulation system with associated chemical pumps, tanks, and piping was constructed at to accept the raw water at the upstream end of the plant and reduce the sediment in the raw water. New pipe sections were installed between the sedimentation ponds and new 2 MGD Filter. The two (2) existing MGD filters were refurbished. New clear water transfer pumps were installed. Two (2) of the existing steel reservoirs were refurbished and coated. A new TTHM (disinfection byproduct) removal system was installed in the concrete reservoir. A new SCADA system was installed. The existing Power Generator Set for the Water Treatment Plant was installed. A new high service pump station to convey the water into the HPUD water distributed system was installed and similar improvements were completed.

Mr. Patel completed the daily construction logs, coordinated geotechnical testing, coordinated structural engineering inspections, assisted with the review of the contractors payment request forms, completed submittal reviews, completed RFI reviews, answered questions from the contractors

and subcontractors, completed daily inspection work, assisted with the completion of the Operation and Maintenance Manuals, assisted with the start-up of the water treatment plant units, assisted with the completion of the weekly project meeting memorandums and similar items.

***Client: County of Imperial Department of Public Works***

***Project: Administrative Building Parking Lot Improvement Project***

***Location: El Centro, California***

Mr. Patel completed the resident engineering services and daily inspections for the \$1,100,000 project. The project improvements consisted of the demolition of the existing parking lots improvements for the County Administrative Center and the demolition of the roadway improvements for abandoned section of 9th Street between Broadway Avenue and Main Street. The project required the relocation of existing power poles and power lines, construction of new sidewalk infrastructure, construction of new landscaping and applicable islands, construction of multiple curb returns and access ramps, installation of parking lot lighting, construction of new parking lot AC Pavement, completion of pavement striping, construction of new trash enclosures, installation of new ribbon gutter and curb and gutter, installation of fiber optic conduits, box and riser, installation of driveway entrances and a new earthquake monitoring station. Mr. Patel monitored the construction schedule, completed daily inspections and prepared daily inspection reports, chaired weekly project meetings, coordinated with the Contractor and geotechnical entities and monitored traffic control activities. Mr. Patel was also responsible for maintaining contact with all the county agencies in the Administration Building to coordinate access to the administrative offices.



**EDUCATION**

**B.S., Mechanical Engineering, Dec 2004**  
CETYS University  
Mexicali, Baja California, Mexico

**REGISTRATIONS**

Registered Mechanical Engineer in  
Mexico  
License No. 6642365

Registered Professional Civil Engineer  
(P.E.) in the State of California  
License No. 90701

**PROFESSIONAL PRACTICE**

**THE HOLT GROUP, INC.**  
El Centro, California  
July 2005 – Present

**Sony Corporation**  
Mexicali, Baja California, Mexico.  
June 2004 – July 2005

**GENERAL QUALIFICATIONS**

Mr. Rolando Sanchez obtained a Bachelor of Engineering degree in Mechanical Engineering from CETYS University in Mexico. Mr. Sanchez has over nineteen years of experience in the civil engineering field. Mr. Sanchez has performed duties including surveying, design and construction management services for various infrastructure improvement projects. Mr. Sanchez has assisted with the preparation of various SWPPP documents, grading plans, civil engineering analyses, specifications and improvement plans. Mr. Sanchez has also completed various types of civil engineering calculations including earthwork calculations and survey calculations. Mr. Sanchez has assisted with the design of various civil infrastructure improvements such as roadways, water and wastewater treatment plants, water, stormwater and wastewater pipelines, pump stations, retention basins, grading plans and various other infrastructure improvements. Mr. Sanchez has also assisted with the design of various mapping documents, in addition to various solar energy and power transmission related projects. Mr. Sanchez is extremely knowledgeable with regards to drafting criteria and AutoCAD Civil 3D functions.

**RELEVANT EXPERIENCE**

***Client: M & W Group***

***Project: Blythe II Solar Project***

***Location: Adjacent to the City of Blythe, California West City Limits in Riverside County near the Blythe Airport***

The Holt Group, Inc. completed the design and provided construction resident engineering services for the Blythe II Solar Project near the Blythe Airport north of Interstate 10. The project consisted of the construction of a 27.92 mega-watt photovoltaic system on 156 acres. The Holt Group, Inc. completed the civil design services for the project including the completion of a hydrology study using flow 2D model software, grading plans for the photovoltaic site, design of 26 foot wide A.C. paved offsite access roads measuring 4,300 lineal feet (0.81 miles) in length, design of a temporary 24 foot side class II base access road measuring 4,000 feet (0.76 miles) in length and design of a 6-inch diameter, 4,000 foot (0.76 mile) long fire water pipeline for fire protection. The Holt Group, Inc. also prepared a Stormwater Pollution Prevention Plan (SWPPP) for the project. The photovoltaic panels, site grading in the area of the invertors and construction trailers, site grading along the 20 and 24 foot wide on-site access roadways, fencing plans and erosion control plans. The A.C. paved roadways were designed per County of Riverside Standards on plan and profile sheets with road shoulders and stormwater swales. The total civil construction cost totaled \$3,200,000. The total project cost of the 27.92 mega-watt facility was



\$29,500,000.

Mr. Sanchez assisted with the design of the on-site grading plans, 26 foot side A.C. paved off-site access roads, 24 foot wide temporary access road and 6-inch fire water pipeline. Mr. Sanchez completed the AutoCAD Civil 3D modeling of the existing and design areas for the on-site grading plan and the access roads. Mr. Sanchez assisted with the design areas for the project perimeter fence. Mr. Sanchez prepared the engineer's opinion of probable quantity and cost for the on-site and off-site civil improvements.

**Client: AECOM**

**Project: California State Department of Corrections – Ironwood State Prison – HVAC Chilled Water System Project**

**Location: 13 miles west of Blythe, California**

The Holt Group was a sub-consultant to AECOM for the State of California Department of Corrections Ironwood State Prison, Heating, Ventilation and Air Conditioning System project. The project construction cost was 142 million dollars and involved replacing the prison's deteriorated evaporative cooling system with a Heating, Ventilation and closed loop chilled water Air Conditioning (HVAC) system at the Ironwood State Prison located approximately 13 miles west of Blythe, California. The new HVAC system was to be connected to and supported 20 large housing structures and the majority of the other prison institutional support structures. The main components of the HVAC consisted of a large chiller plant and a closed looped underground water pipeline system to deliver and return the chilled water to the chiller plant. The Holt Group's sub-consultant task was to complete the Civil grading design and plans for different HVAC support areas and to prepare the plan and profile chilled water pipeline plans for the HVAC system.

Mr. Sanchez assisted with the project design consisting of the preparation of the plan and profile pipeline drawings and Civil Grading plans. The identification and accurate illustration of existing utilities on the plan and profile sheets was extremely important to avoid conflicts with the new chilled water pipeline. Mr. Sanchez was the lead CAD designer in the preparation of the demolition plans, pipeline plan and profile sheets, grading plans and detail sheets. Mr. Sanchez also assisted with the preparation of the Civil Section of the Specifications. Mr. Sanchez was the lead contact person in providing construction support services during the project construction period. Mr. Sanchez reviewed the Civil submittal documents, regularly participated in teleconference calls to discuss construction issues, responded to RFI's and conducted periodic site visits.

**Client: County of Imperial - ICWED**

**Project: Niland Public Safety Facility**

**Location: Niland, California**

Mr. Sanchez assisted in the completion of the preliminary design and was the lead Design Engineer for the preparation of the Civil grading and offsite street and utility design for the Niland Public Safety Facility project. The Holt Group completed the preliminary and final project design documents along with the Architectural subconsultant, Holt

Architects. The Imperial County Community and Economic Development Department (ICCED) obtained a 5 million dollar CDBG Grant to construct the project. The project consisted of demolishing the existing Niland Fire Department Building at 8071 Luxor Avenue in Niland, California and constructing a new 7,500 square foot Fire/Police Substation/Cooling Center Facility at the same site.

The Holt Group designed the civil on-site and off-site improvement plans including roadway improvements along Luxor Avenue and Third Street, site fencing, a new masonry solids waste enclosure, new masonry wall along the south project boundary, an offsite alley improvement extending from the southerly property boundary to Fourth Street and parking lot areas. The improvement plans also included the sanitary sewer service pipeline design, domestic and fire water pipeline designs and utility coordination. The Holt Group completed the submission and coordination of the Imperial Irrigation District Electrical Customer Service Proposal (CSP) for the demolition and installation of electrical power service lines. The approved IID CSP was approved during the design period. The Holt also completed the initial coordination of the gas pipeline disconnection and new gas pipeline service with Southern California Gas Company. The Holt Group also completed offsite water improvement plans in conformance with Golden State Water Company Guidelines and assisted with the coordination of Golden State applications and fee payments. Mr. Sanchez completed the offsite water improvement plans in conformance with Golden State Water Company guidelines. Mr. Sanchez took the lead in completing the ADA design of sidewalks and ramps for the path of travel along the exterior of the Niland Public Safety Facility. Mr. Sanchez coordinated the ADA design with the Project Architect and County of Imperial Representatives. The Holt Group completed the Bid Forms, Special Conditions and Civil Technical Conditions. Mr. Sanchez prepared the Civil Technical Conditions. Mr. Sanchez completed the Engineers Opinion of Probable Quantity and Cost for the Project. Mr. Sanchez also attended numerous meetings during the project design period with the County of Imperial and Project Architect to streamline the project design plans and specifications and maintain the project costs to a minimum.

***Client: Morongo Band of Mission Indians***

***Project: Morongo Commercial Suites***

***Location: Morongo Band of Mission Indians Reservation near Banning, California***

Mr. Sanchez assisted in the completion of the Civil Engineering grading plans, utility plans, erosion control plans and traffic control plans for the Morongo Band of Mission Indians Commercial Suites Project close to Interstate 10 near Banning, California. The project consisted on the construction of a 9,000 square foot commercial suites facility in which restaurant facilities were located. The project was within the developed area of the Morongo Band of Mission Indians reservation close to mountainous terrain. Portions of the site topography possessed steep slopes resulting in significant challenges in preparing the grading plans and ADA required facilities. A combination of sloped terrace areas and retaining walls was employed to complete the grading plan design. There were also existing dry utilities including two (2) 30 inch diameter

intercontinental gas pipelines which passed through the project site. Extra precautions were taken during the design period to avoid conflict with the extremely large high pressure gas pipelines. The construction cost for this project was 5.1 million dollars. The Civil construction costs for the project was 1.6 million dollars.

Mr. Sanchez assisted with the preparation of the grading plans, horizontal control data, erosion control plans, water, sewer and stormwater (wet utility plans) and traffic control plans. Mr. Sanchez also assisted in coordinating the dry utility improvements (electrical, communication, telephone and gas facilities) in order to avoid conflicts with the wet utility and grading infrastructure facilities. Mr. Sanchez was responsible for the computer modeling of the existing site and new design planes using the Civil 3D modeling software. Mr. Sanchez also assisted with the design of the grading along the path of travel which was required to be designed per current ADA requirements. Mr. Sanchez also assisted with the parking lot design.



ASSISTANT RESIDENT ENGINEER /  
ASSISTANT PROJECT ENGINEER

**EDUCATION**

**B.S., Civil Engineering, June 2013**  
California State Polytechnic University,  
Pomona  
Pomona, California

**REGISTRATIONS**

Registered Engineer In Training (EIT),  
California  
Certificate No. 149607

**PROFESSIONAL PRACTICE**

**THE HOLT GROUP, INC.**  
El Centro, California  
February 2014 - Present

**SOUTHLAND GEOTECHNICAL**  
El Centro, California  
November 2005 – June 2007

**GENERAL QUALIFICATIONS**

Mr. Todd Richardson obtained a Bachelor of Science degree in Civil Engineering from California State Polytechnic University, Pomona. Mr. Richardson has ten years of experience in the civil engineering construction management field at The Holt Group, Inc. He has completed surveying activities, assisted with preparing engineering studies, and has provided construction management and design services for various types of civil infrastructure projects including water and wastewater treatment plants, pump stations, retention basins, water, sewer and stormwater pipelines and street infrastructure.

**RELEVANT EXPERIENCE**

**Client: County of Imperial**  
**Project: Clark Road Improvements Project from Wahl Road to 0.5 mi. N. of SR-98 and from Heber Road to 0.5 mi. N. of Heber Road**  
**Location: Heber, California**

Mr. Richardson was the onsite assistant resident engineer and was responsible for assisting with the construction management services. The project consisted of the demolition and removal of existing A.C. pavement and underlying base material within the dig-out areas at various intersections throughout the project limits, grinding of existing A.C. pavement at various depths, installation of class II base within the dig-out areas and road shoulders, crack sealing, installation of the geosynthetic fabric pavement interlayer, installation of new A.C. pavement along the roadway section, and installation of signage and striping. The construction management services included administration of the pre-construction meeting and preparing associated pre-construction conference agenda and memoranda; progress meeting coordination with the Contractor, County of Imperial Representatives, and Geotechnical Consultants; monitoring of safety conditions at the project site; conflict resolution; monitoring of construction activities on a daily basis (including the preparation of daily construction activity reports); submittal reviews; RFI reviews and responses; reviews of payment and change order requests; monitoring of the project schedule; completion of labor compliance services; monitoring of traffic control requirements; completion of project close out activities; and completion of project as built plans. All construction management services were conducted in accordance with Caltrans Local Assistance Procedures Manual (LAPM) requirements.

***Client: Palo Verde County Water District***

***Project: North Bolted Tank Replacement and Filter Installation Project - Phase II***

***Location: Palo Verde, California***

Mr. Richardson was the onsite resident engineer and is responsible for assisting with the construction management services. The project consisted of the replacement of an existing 125,000 gallon bolted steel ground storage reservoir with a new bolted steel ground storage reservoir as well as the installation of a redundant pressurized water filter. A TTHM Removal System was installed on the new bolted steel water tank. The existing distribution pumps were rehabilitated. The total cost of the project is approximately \$671,000. The construction management services include coordination with the contractor, coordination with the Imperial County Health Department Division of Environmental Health, review of construction activities, submittal review, processing of payment requests and change orders, responding to request for information forms (RFIs), generating daily construction reports, monitoring project activities, assisting in coordinating electrical inspections and instrumentations and instrumentation and electrical control equipment activities and updating the client and grant agency regarding the project status.

***Client: Albert A. Webb Associates***

***Project: City of Imperial – Claypool Force Main and Waterline Improvements***

***Location: Imperial, California***

Mr. Richardson was the onsite assistant resident engineer and was responsible for assisting with the construction management services. The project consisted of the installation of a new centrifugal pump skid for a sewer force main lift station, modifications to the existing lift station, installation of approximately 3,075 feet of 8-inch diameter PVC sewer force main, and the installation of approximately 1,810 feet of 10-inch diameter PVC water line. The construction management services included coordination with the contractor, review of construction activities, verification of pipeline grades and alignment, submittal review, processing of payment requests and change orders, responding to request for information forms (RFIs), generating daily construction reports, updating the client on the project status and progress, assisting in coordinating the completion of as-built drawings and similar project close-out items.

***Client: Imperial Irrigation District***

***Project: New Briar Flume Crossing Over the All American Canal Project***

***Location: Calexico, California***

Mr. Richardson was the onsite resident engineer and was responsible for assisting with the construction management services. The project consisted of the installation of two (2) new steel truss bridges that span the All-American Canal, construction of several cast-in-place concrete inlet and outlet connection structures, and the construction of new trapezoidal concrete channel as required rerouting the existing New Briar Canal through the new flume crossing. The construction management services

include coordination with the contractor, review of construction activities, assistance with responding to request for information forms (RFIs), generating daily construction reports, and monitoring project activities.

**Client: Palo Verde County Water District**

**Project: Chlorination System and Control Replacement Project - Phase I**

**Location: Palo Verde, California**

Mr. Richardson was the onsite resident engineer and was responsible for assisting with the construction management services. The project consisted of the replacement of an existing defunct chlorine gas injection system with a new liquid chlorine disinfection system, installation of two (2) new chlorine injection pump skids, a new liquid chlorine storage tank, a new filter control panel, and monitoring equipment. The total cost of the project is approximately \$288,000. The construction management services include coordination with the contractor, coordination with the Imperial County Health Department Division of Environmental Health, review of construction activities, submittal review, processing of payment requests and change orders, responding to request for information forms (RFIs), generating daily construction reports, monitoring project activities, assisting in coordinating electrical inspections and instrumentations and instrumentation and electrical control equipment activities and updating the client and grant agency regarding the project status.

## **5. SUMMARY OF SPECIFIC EXPERIENCE AND PROPOSED SCOPE OF WORK APPROACH**

The Holt Group, Inc. has performed a full range of Civil Engineering Services for Municipal, Districts and Public Sector Clients. The Holt Group, Inc. has completed Reports and/or Studies, SWPPP, BMP's, Cost Estimates, Traffic Control Plans, Design Documents, Project Bidding, Construction Management and Inspection, Surveying and Labor Standards Compliance Monitoring for Municipal Public Works Projects. The Public Works Projects have included Street Improvement Projects, Street Maintenance Projects, Water Pipeline Improvement Projects, Sanitary Sewer Pipeline Improvement Projects, Stormwater Pipeline Improvement Projects, Sanitary Sewer Pump Station Projects, Stormwater Pump Station Projects, Water Distribution Pump Station Projects, Wastewater Treatment Plant Improvement Projects, Water Treatment Plant Improvement Projects, City Entrance Sign Projects, Park and Recreation Projects and similar infrastructure Projects.

The Holt Group, Inc. provides a high quality of service to its clients. The Holt Group, Inc. will participate in project related meetings and welcomes the opportunity to assist the City of Imperial with project management services which includes coordination and communication with the City of Imperial, applicable funding agencies and utility purveyors. The Holt Group, Inc. has established excellent working relationships with various funding agencies and utility purveyors which facilitates the completion of the project in an accurate and expeditious manner.

The Holt Group, Inc. has also completed Plan Checking Services for numerous Subdivision and Commercial Development Projects for the Heber Public Utility District, City of Holtville, County of Imperial, City of Imperial and City of Calipatria. The review of Tentative Maps and the preparation of draft conditions of approval for City Staff and Council Review are also conducted as a part of plan checking services.

The Holt Group, Inc. has also completed Plan Checks of Record Maps (Record of Survey, Parcel Maps and Tract Maps) and the preparation of Record Maps for Municipal Clients.

The Holt Group, Inc. has also completed numerous studies including Hydrology Reports, Drainage Studies, Water Distribution System Analysis, Wastewater Collection System Analysis and similar studies. The Holt Group, Inc. has prepared and updated City Wastewater Collection System Maps and Water Distribution Maps for Cities and Districts. The Holt Group, Inc. has also completed Standard Details and Specification Documents for the Heber Public Utility District, City of Holtville, City of Calipatria and City of Blythe. The Holt Group, Inc. has completed comprehensive street reports for the Cities of Holtville, Calipatria and Westmorland identifying the recommended improvements and costs for each street section within the City Limits.

The Holt Group, Inc. serves as City and District Planners for the City of Holtville, City of Calipatria, and Heber Public Utility District. Services range from routine environmental assessments for relatively small projects to updates of the General Plan or preparation of the Cities General Plan. The Holt Group, Inc. has also assisted the Cities in acquiring grant/loans for street, water and wastewater projects.

Following is a brief description of the various Engineering Services provided by The Holt Group, Inc.:

### **5A. PLAN CHECKING SERVICES**

Review of Land Development and Municipal Infrastructure Projects is one of the most important functions of a City or County Engineer. The review and sizing of future street, water, sewer and stormwater infrastructure for a specific project affects not only that project but the development of the surrounding area. The selection and sizing of the infrastructure can have profound effects on the future development for a given area within a City, District or County.

The Holt Group, Inc. conducts plan reviews of the Improvement Plans and Final Maps (Tract or Parcel Maps) after the approval of the Tentative Map. The Plan Review process requires visiting the project site to verify the location of existing and proposed facilities. During the site visit it is verified that major facilities within or surrounding the project site are illustrated on the plans. The Holt Group, Inc. contacts local utilities to ensure their comments are incorporated into the plan check review.

The Improvement Plans are checked according to the Standard Detail and Specification Guidelines of the County and/or governmental agency guidelines and the Conditions of Approval of the Tentative Map. The Holt Group, Inc. conducts a thorough review of improvement plans requiring that project benchmarks are

illustrated on the plan sheets and are located within or immediately adjacent to the project site. The Improvement Plans are checked for Technical accuracy and iterative plan checks are completed until such time as the improvement plans are technically accurate, are in conformance with the approved conditions of approval, conform to the City/County Standard Specifications and Details and conform to the City/County General Plan Requirements. At the conclusion of the plan review process the developers engineer prepares cost estimates of off-site improvements. The Holt Group, Inc. reviews and approves the cost estimates. The approved cost estimates establish the value of the off-site security to ensure the off-site improvements are constructed after the Final Maps are recorded in the event the subdivider defaults.

The Holt Group, Inc. has completed Tentative Map, Improvement Plan and Final Parcel and Tract Map reviews for Municipalities and Districts in Imperial Valley for the last forty (40) years. The Holt Group, Inc. is attentive to the unique agency requirements and makes the extra effort to ensure the requirements are reflected on the Improvement Plans and Final Maps. The Holt Group has also prepared Records of Survey for municipal projects.

The Holt Group, Inc. has also completed plan checks of Municipal Street Improvement and Maintenance Projects, Water Distribution Pipeline Projects, Sanitary Sewer Pipeline Projects, Sanitary Sewer Pump Stations, Stormwater Pump Stations, Domestic Water Booster Pump Stations and Ground Storage Reservoirs, Water Treatment Plants, Sanitary Sewer Treatment Plants and similar infrastructure projects.

#### **5B. DESIGN SERVICES**

The Holt Group, Inc. completes the full spectrum of Civil Engineering Design. Although some firms are limited to Private Commercial and Subdivision Design, The Holt Group, Inc. completes these basic Civil Engineering projects plus Municipal Water, Sewer, Stormwater and Street Designs. The Holt Group, Inc. recently completed the Design of a 9-million-dollar Wastewater Treatment Plant Improvements Project for the Niland County Sanitation District, a 2-million-dollar Roadway Infrastructure Improvement Project along S. Brown Avenue in the City of Calipatria and is currently designing a 3-million-dollar Water Treatment Plant Improvements Project for the Gateway of the Americas. The Holt Group, Inc. has completed numerous roadway improvement projects in the Imperial Valley ranging from full roadway reconstruction, resurfacing improvements, crack sealing improvements and various other roadway improvements. Some of the roadway improvement projects required the completion of drainage or hydrology studies and the design of concrete improvements such as sidewalks, curb and gutter and cross gutters.

The Holt Group, Inc. initiates the design process with a description of the project. The Project Description includes an itemization of the components of the project. The Engineering, Construction and Contingency Costs of the Project are identified. The project description, items comprising the project and total project costs are reviewed with the City Staff prior to proceeding with the Project Design.

Improvement Plans are prepared in accordance with the requirements of the City Standard Specifications and Detail Documents, in addition to any particular funding agency requirements. The Specifications include the Invitation for Proposal, Instruction for Bidders, Contract Documents, General Conditions, Special Conditions and Technical Conditions. The Specifications are prepared in accordance with the City Standard Specifications and Detail Documents and/or Grant/Loan Agency Requirements. Grant/Loan Agency DBE/UDBE, Project Signs, Warranties and other similar specific requirements are incorporated into the Specifications.

The Project Design is typically completed at a 50 percent, 90 and 100 percent Status. The Improvement Plans are initially schematic to allow the client and agencies maximum flexibility to review and alter the Improvement Plans during the initial design stages. Project Design becomes more detailed and technically oriented as the design process progresses. Client reviews are conducted at the 50%, 90%, 100% and Final Review Stages until the Project Design documents are complete. At the conclusion of the Design Phase a detailed Engineer's Opinion of Probable Cost and Engineer's Opinion of Probable Quantity



are prepared. The Contract Documents and Final Cost Estimates are reviewed with the Client. The Holt Group, Inc. is available to attend Meetings to review the Projects and associated costs as required.

#### **5C. CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES**

The Holt Group, Inc. approach to managing and completing any type of construction related project is to be as thorough and accurate as possible. The Holt Group's Engineering Staff will be present at the project site on a full-time and continuous basis to ensure that infrastructure improvements are being constructed in accordance with the project plans and specifications. The Holt Group's Engineering Staff will monitor every aspect of the construction activities taking place and will work diligently to ensure that the project remains on or ahead of schedule. The Holt Group's Engineering Team will keep in daily contact with the City of Imperial Staff and keep the staff abreast of ongoing activities related to the project. The Holt Group's Engineering Staff will prepare daily construction activity reports and forward the reports to the City of Imperial on a daily basis. The Holt Group Staff will collect weight slips and complete measurements as required to quantify the materials placed at the project site each day. A spreadsheet shall be prepared and updated each day to document the materials placed at the project site each day and monitor the actual construction cost against the anticipated bid construction cost. The Holt Group Staff will prepare weekly reports which will provide an overall summary of construction activities on a weekly basis. The Holt Group's Engineering Staff will also coordinate and chair weekly construction progress meetings with the City of Imperial Staff and the Contractor to review ongoing construction activities. The Holt Group will also maintain contact with the Imperial Irrigation District Water Division, Imperial Irrigation Power Division, AT&T, Southern California Gas and other utility agencies to coordinate utility locations and ensure utility conflict avoidance. The Holt Group will monitor and coordinate project road closures and Traffic Control Provisions. The Holt Group will also monitor and assist in coordinating and enforcing County of Imperial and IID Encroachment Permit provisions. If issues of great significance occur, The Holt Group's Engineering Staff will immediately contact the City of Imperial to review the issue at hand and work diligently to arrive at a resolution. If selected, The Holt Group, Inc. ensures that the City of Imperial will know the condition of the project at any given time.

The Resident Engineering and Construction Inspection Services for roadway projects shall be accomplished in accordance with Chapters 15, 16 and 17, latest revision, of the Caltrans Local Assistance Procedures Manual, the Improvement Plans, Specifications and Contract Documents, City of Imperial Standards and latest edition of Caltrans Standard Plans and Specifications as applicable. Engineer's daily inspection reports, project files, construction records and procedures, safety provisions, labor compliance, equal opportunity employment, disadvantaged business enterprise, contract change orders, material sampling and testing, traffic safety in the street zone, response to Request for Information forms and similar items shall be accomplished in accordance with provisions of the Local Assistance Procedures Manual (LAPM) and applicable LAPM forms.

The Holt Group Engineering Staff will also closely monitor traffic controls, utility relocations, water pipeline relocations, safety provisions and similar items. Potential conflicts and contractor labor related matters will be monitored to ensure that the Contractor and Subcontractors are adhering to the required wage rates and state regulations.

## 5D. REPORTS AND STUDIES

Major Municipal Infrastructure Projects start with a report. The report includes a project description noting background information and the goals of the project. The Project Report includes the Project parameters and Scope of Work. The Project Report includes the anticipated project costs and sources of revenue.

Other project reports are purely technical such as Drainage and Hydrology Reports. Hydrology Reports and other purely technical reports are often a sub-item requirement of a project such as a condition of approval item of a Tentative Map.

Master Plan of Water and Sewer Reports include a description and illustration of the existing and proposed future pipeline, pump stations and treatment systems for the entire community. The Master Plans often extend into the area of the Sphere of Influence. Cost Estimates of the proposed future improvements are included in the Master Plan Document. If approved and adopted, the Master Plan Documents are invaluable tools in the development of a Municipality. The trigger flow rate for a Wastewater or Water Treatment Plant Expansion, location of required pump stations and the sizes of pipelines for a community are defined by the Master Plan which expedites the development of the Community.

A detailed description of all the different types of Reports required by a Municipality for major infrastructure improvements would result in a lengthy document. The Holt Group, Inc. is acutely aware of the necessity of preparing comprehensive and accurate reports defining the goals, expectations, project parameters, scope of work and costs prior to commencing the design and subsequent construction of a project. As the first step in a major infrastructure project, the preparation of a comprehensive and accurate report is extremely important. The Holt Group, Inc. has prepared the following different type of reports during the last forty (40) years and will make any of the reports available for review.

Following are the different types of Reports and Studies prepared by The Holt Group, Inc.:

1. Drainage and Hydrology Studies
2. Water Distribution System Studies
3. Sanitary Sewer Collection System Studies
4. Master Plan of Water
5. Master Plan of Sewer
6. Comprehensive Municipal Street and Road Studies (Completed annually for the Cities of Holtville and Calipatria)
7. Water Treatment Plant Report
8. Sanitary Sewer Treatment Plant Report
9. Preliminary Engineering Reports

**SF. MISCELLANEOUS ENGINEERING SERVICES**

The Holt Group, Inc. completes many other miscellaneous projects for the Municipalities it represents. The Holt Group, Inc. completed comprehensive Standard Specification and Detail Documents for the Cities of Blythe, Holtville, Calipatria and the Heber Public Utility District. The Standard Details and Specifications include Tentative Map Requirements, Final Map Requirements, Improvement Plan Requirements and Geotechnical Requirements as well as including the Technical and General Specifications and Standard Drawings. Other miscellaneous projects include preparing cost estimates for small infrastructure improvements such as the off-site street improvements, the preparation of a report regarding the structural condition of specific pieces of infrastructure, the design of City Entrance Signs, and similar items. As Municipal Engineers, The Holt Group, Inc. is comfortable with completing projects unique to a Municipality or County. The Holt Group, Inc. has experience and is aware of the different approaches with regards to Staff, Planning Commission, City Council and other parties with regards to specialty projects and is amenable and patient in working with all different parties within the City. The Holt Group, Inc. will attend City Staff, Planning Commission Meetings and City Council Meetings as requested to be of assistance with Specialty Projects.

Should it be required, The Holt Group, Inc. will utilize the services of a licensed traffic engineer to complete any required traffic studies requested by the City of Imperial. The Holt Group, Inc. will complete any required traffic control plans or traffic control plan reviews internally.

**6. PROFESSIONAL REFERENCES**

**Nick Wells**

City Manager  
City of Holtville  
121 West Fifth Street  
Holtville, CA 92250  
Tel: 760/356-2912

**Laura Gutierrez**

City Manager  
City of Calipatria  
125 N. Park Avenue  
Calipatria, CA 92233  
Tel: 760/348-4141

**Madeline Dessert**

General Manager  
Heber Public Utility District  
1078 Dogwood Road  
Heber, CA 92249  
Tel: 760/482-2440

**John Gay**

Director of Public Works  
County of Imperial  
155 S. 11<sup>th</sup> Street  
El Centro, CA 92243  
Tel: 442/265-1818

### III. ANALYSIS OF EFFORT/METHODOLOGY

#### 1. SPECIFIC TECHNIQUES AND METHODS TO BE USED TO PERFORM WORK

The Holt Group, Inc. performs a full range of Civil Engineering Services for Municipal, District and Public Sector Clients. The Holt Group, Inc. completed Reports, Cost Estimates, Design Documents, Project Bidding, Construction Management and Inspection, Surveying and Labor Compliance Monitoring for Municipal Public Works Projects. Following are the specific Techniques and Methods to be used to perform the Engineering Services:

##### 1.1 Reports and Studies

- a. Conduct meetings with City Staff to define project parameters, scope of work, objectives and cost expectations.
- b. Conduct a Field Survey of the project. Note all existing facilities, utilities, structures, etc. at the site which could affect the project. Note field survey items which will be required to be obtained to complete the Report.
- c. Complete research of the subject of the Report. If the project involves the cold recycling of existing A.C. Pavement then research past projects, review the latest manufacturers' information, agency information and Asphalt Society Information. Recommendations for the report should be based upon the latest available technical advancements when economically feasible.
- d. Complete Field Work. Obtain necessary field survey information as required.
- e. Prepare the Contents of the Report. Reports should include an Introduction explaining the purpose of the report and background information, Analysis Section of the report (in which calculations are included as appropriate), cost estimate of improvements, alternatives (if appropriate), Schedule of Events listing the proposed Design, Bidding and Construction time periods, identification of project funding source and a Recommendation Section.
- f. Prepare the Appendix Section of the Report. The Appendix Section may include existing schematic site plans, proposed schematic site plans, population projections, local agency data sheets, and similar report documents.
- g. Review the Preliminary Reports with the City Staff. Modify the Report per City Staff comments prior to finalizing the report.

The Holt Group, Inc.'s policy is to prepare reports which are easy to understand, clearly state the reason and purpose of the proposed project, list a concise scope of work include a project schedule for the design, bidding and construction phases and provide an Engineer's Opinion of Probable Cost which accurately reflects the project costs.

##### 1.2 Design Phase Services

- a. Complete a Design Review Meeting with the City Staff. Review the Project Report/Study completed prior to the Design Phase if available. If no Report/Study is available then Review the Project Goals and Objectives, Scope of Work and Project Budget.
- b. Complete Record Research of Survey Records, Legal Survey Maps, As-Built Improvement Plans, previous reports and all other information which affects the project.

- c. Obtain Field Survey Information. Locate existing survey monuments to define project right of way or project boundaries. Establish survey control for the project boundary or street/road right of way as applicable.
- d. Complete Field Survey Work to define existing structures, headwalls, power poles, signs and similar objects within the project area. If an aerial survey is to be completed, then set the aerial targets and obtain the horizontal coordinates and the vertical elevation of each target.
- e. After the initial Field Survey Work and aerial photogrammetric map is available (if applicable) field verify that all objects were identified and accurately "called out" on the existing site plan.
- f. Obtain all field survey information required for the project design which is not included on the initial existing site plan. Items such as the existing invert/flowline elevations of sanitary sewer manholes or stormwater manholes, end of existing curb and gutter flowlines, etc. are to be obtained to start the project design.
- g. Complete a listing of the drawings to comprise the project design plans. Include Title Sheets, Project Index Sheets, etc. Review any County Standard Plan preparation requirements.
- h. Prepare the 30 percent design review plans. Include existing site plans, new site plans and detail sheets. Prepare Improvement Plans in an AutoCAD format at a minimum 1-inch equals 40 foot scale.
- i. Prepare the Project Specifications. The Project Specifications include the Invitation for Proposals, Instruction for Bidders, Proposal Forms, Contract Documents, General Conditions, Special Conditions and Technical Conditions.
- j. Complete any necessary calculations which may require completion prior to the commencement of the improvement plans.
- k. Review 50 percent plan and specification documents with City Staff. Prepare plans and specifications to 90 percent status. Revise plans to include 50 percent plan and specification review comments.
- l. Review 90 percent plan and specification documents with City Staff.
- m. Prepare 100 percent plans and specification. Revise plans to include 90 percent plan and specification review comments.
- n. Review 100 percent plan and specification documents with City Staff.
- o. Revise plans and specification to final "Bid Set" documentation status. Revise "Bid Set" plans and specifications to reflect 100 percent review comments.
- p. Complete a comprehensive Engineer's Opinion of Probable Quantity (EOOPQ). The EOOPQ should include all calculations and be detailed.
- q. Prepare a comprehensive Engineers Opinion of Probable Cost (EOOPC) based upon the Engineers Opinion of Probable Quantity.

- r. Forward plans to affected Utilities during the project design period. Obtain comments from utilities and incorporate comments into the design documents prior to completion of "Bid Set" Plans.
- s. Prepare all required County of Imperial, Imperial Irrigation District, Caltrans or other agency encroachment permit applications during the design period. Obtain an approved Encroachment Permit Application from each agency by the conclusion of the project design. Include the approved Encroachment Permit Application in the Special Conditions Section of the Specifications.
- t. Review the completion of the SWPPP document during the project design. The Holt Group, Inc. is amenable to preparing the SWPPP document and including the Best Management Practice Requirements on separate plan sheets included with the Design Plans.
- u. Include any Striping and Signage Plan, Grading Plan, Traffic Control or Detour Plan with the "Bid Set" Improvement Plans. Obtain Caltrans, County of Imperial, or other agency approval during the preparation of the Traffic Control Plan.

For relatively "small" projects the plan review process may be reduced to a 90 percent and final set of contract documents as approved by the City of Imperial Staff.

### **1.3 Plan Checks**

- a. Review Improvement Plans, Tentative Maps, Parcel Maps, Tract Maps, etc. upon initial submission. Review the documents against the County Standards and Details and other requirements. Obtain a copy of Conditional Use Permits or Tentative or Parcel Map Conditions of Approval establishing requirements particular to a given project. Commence the plan check if the documents are in compliance with City requirements. If the documents are not in conformance with the City plan check requirements, then promptly return the plan check documents to the design engineer with correspondence indicating the items which are not in compliance or "missing".
- b. Obtain required background documents prior to commencing the plan check. Obtain existing Record Maps, Corner Records, Tie Cards and other available information for the review of Parcel Maps, Tract Maps, Easement Documents, etc.
- c. Conduct a field review of the project site prior to commencing the plan review. Insure all existing major structures, power poles, canals, signs and similar structures and utilities are illustrated on the existing site plan and accounted for.
- d. Complete Plan Review of Improvement Plans in conformance with City Standards and Requirements. Check plans for ADA compliance, City General Plan Compliance and Compliance with any City prepared Master Plans or City imposed conditions of approval. Request additional technical, detail or specification information be added to the plans.
- e. Review Geometric Calculations, Sanitary Sewer Pipeline Calculations, Domestic Water Pipeline Hydraulic Analysis and similar calculations accompanying the plans or map documents.
- f. Review Specification Documents accompanying the Plan Check Documents as applicable.
- g. Complete Review of Engineering Cost Estimates for improvements.
- h. Iteratively review the Improvement Plan, Calculations and Map Documents until the Documents are approved.

- i. During the plan check process ensure that all effected utilities are forwarded plans and afforded the opportunity to provide plan comments. Require the Design Engineer to obtain Encroachment Permit Application approved documents from effected utilities during the plan check process.
- j. During the plan check process ensure Traffic Control Plans are prepared by the Design Engineer as required. Ensure SWPPP requirements are addressed.

#### **1.4 Meeting Attendance and Document Review**

- a. Participate in kickoff meetings with the City of Imperial, applicable utility purveyors and funding agencies. Prepare meeting agenda's and meeting memoranda upon completion of said meeting.
- b. Participate in additional project status review meetings with the City of Imperial, applicable utility purveyors and funding agencies. Prepare meeting agendas and meeting memoranda upon completion of said meetings.
- c. Review existing City of Imperial policies, procedures, guidelines and related documents as required. Prepare modifications to existing documentation as required by the City of Imperial.

#### **1.5 Construction Management and Inspection**

- **Coordination and Meetings**
  - Pre-Construction Conference - Coordinate and chair the Pre-Construction Conference. Prepare the Pre-Construction Conference Agenda and Memorandum. Distribute the Agenda, Memorandum and Attendance List to all associated parties.
  - Coordination with the General Public and Public Safety Agencies - Notify the general public and public safety agencies of the project, the upcoming construction activities, roadway closures and alternative driving routes. Meetings with public safety agencies and local school Administrative Staff may be required.
  - Weekly Progress Meetings - Coordinate and chair Weekly Progress Meetings. Progress Meeting Agendas and Memorandums will be prepared and distributed to all appropriate parties.
- **Resident Engineering and Construction Inspection Services**
  - Submittal Review Assistance - Complete the review of project submittals. Coordinate with the City of Imperial for final acceptance or rejection of project submittals.
  - Resident Engineering and Construction Inspection Services
    - Provide Full Time Resident Engineering and Construction Inspection Services.
    - Verify subbase, subgrade and finish grades are constructed in conformance with the approved plans.
    - Prepare and distribute Daily Construction Inspection Reports to all pertinent parties.
    - Monitor Safety Conditions at the Project Site.
    - Monitor Traffic Control Activities at the Project Site.
    - Monitor and resolve project conflicts.
    - Review submittals forwarded by the contractor.

- Monitor that the provisions of the County of Imperial Encroachment Permit are satisfactorily completed.
  - Notify Public Safety Agencies, Local Businesses, Residents, Schools and other applicable agencies of Traffic Impacts prior to commencement of project construction.
  - Collect and review all material slips delivered to the project site. Monitor and track all project material quantities.
  - Prepare Weekly Summary Report highlighting the Project Progress and Schedule, Potential Issues and similar items.
  - Review project Progress Payment Applications and Change Order Requests. Coordinate with the City of Imperial with regards to final approval of all Payment Applications and Change Order Requests.
  - Review and prepare responses to RFI Submittals. Coordinate with the City of Imperial prior to the issuance of responses to RFI's.
  - Coordinate with Geotechnical Acceptance Testing and Independent Assurance Testing Consultants during the project. Review project documentation and Material Testing Consultant payment applications as applicable.
  - Assist with the completion of Project Close Out activities and documentation. Includes pre-final and final walkthroughs, preparation of punch list and verification that punch list items are satisfactorily completed.
  - Obtain As-Built Plans from the Contractor and verify As-Built Plans are satisfactorily completed.
  - Assist in coordinating and monitoring Labor Standards Compliance Services (including on site interviews, documentation review, LAPM Labor Compliance Documentation preparation and the preparation of the end of month report).
  - Monitoring of material placement and soil and material testing at the project site.
  - Interpretation of the Contract Documents and responding to Contractor questions.
  - Maintain contact with effected Utility Purveyors and notify/coordinate utility improvements or connections required for the project.
  - Ensure that all Grant/Loan Agency contract document requirements are completed as appropriate during the project construction.
  - Coordinate and review SWPPP implementation and BMPs prepared for the project.
- **Project Deliverables**
    - Weekly Meeting Agenda's and Memoranda.
    - Daily Construction Inspection Reports (to be submitted at the conclusion of each workday).
    - Weekly Summary Reports including all weekly project data obtained (to be forwarded to the City of Imperial and all other pertinent parties).
    - Project Summary Report, as required.
    - Notebooks and electronic copies of all prepared and obtained project documentation.
    - As Built Plans, as required.



**2. PLAN CHECK TIMELINE**

Small projects (5 plan sheets or fewer) plan checks are to be completed within five (5) calendar days while large projects (more than 5 plan sheets) plan checks are to be completed within ten (10) calendar days. Each subsequent plan check, if necessary, shall not require more than five (5) calendar days.

It is proposed project schedules and timelines be determined at the initial plan review meeting between the City Staff and The Holt Group, Inc.

**3. EXPECTED CITY PARTICIPATION, DATA & PRODUCTS WITH RESPECT TO PROJECT**

It is requested that a designated City of Imperial contact person be made available to communicate with The Holt Group, Inc. Project Engineer throughout the duration of a project. It is requested the City of Imperial provide as-built plans, existing geotechnical reports, survey notes, conditional use permit requirements and conditions of approval, Tentative or Parcel Map conditions of approval and similar information prior to the commencement of work by The Holt Group, Inc

**4. DELIVERABLES**

After the approval of projects, The Holt Group will provide one (1) hard copy set and one electronic disk of plans for design projects. An electronic disk and hard copy of the specifications will also be provided. A hard copy and electronic disk of quantity and cost estimates will be provided.

**IV. FEE SCHEDULE**

The Holt Group, Inc. Hourly Fee Schedule is attached to this Proposal.

**V. INSURANCE REQUIREMENTS**

The Holt Group, Inc., maintains comprehensive insurance for Commercial General Liability, Commercial Auto Liability, Workman's Compensation, and Errors and Omissions.

The Holt Group, Inc., will provide proof of insurance naming the City of Imperial as a certificate holder prior to execution of the On-Call Civil Engineering Services Agreement and/or commencing work on specific City of Imperial projects.

A sample Certificate of Insurance is attached to this Proposal.

**VI. PROPOSAL ACKNOWLEDGEMENT FORM**

The signed Proposal Acknowledgement Form is attached to this Proposal.

THE HOLT GROUP, INC.  
Hourly Rate Schedule  
Effective January 1, 2024

<b>PLANNING</b>	
Senior Planner (AICP)/Senior Project Manager	\$160.00/Hour
Associate Planner	\$130.00/Hour
Assistant Planner	\$100.00/Hour
Planning Clerk	\$80.00/Hour
Senior Labor Standards Compliance Monitor	\$94.00/Hour
Assistant Labor Standards Compliance Monitor	\$100.00/Hour
Planning Assistant	\$90.00/Hour
Grant Manager	\$160.00/Hour
Planning Designer/AutoCAD Technician	\$85.00/Hour
<b>ENGINEERING</b>	
Principal Engineer P.E./L.S.	\$180.00/Hour
Project Engineer P.E./L.S.	\$160.00/Hour
Associate Project Engineer	\$150.00/Hour
Assistant Project Engineer	\$140.00/Hour
Project Manager	\$160.00/Hour
Civil Designer III	\$115.00/Hour
Civil Designer II	\$110.00/Hour
Civil Designer I	\$100.00/Hour
Senior Plan Checker P.E./L.S.	\$160.00/Hour
Plan Checker	\$130.00/Hour
Resident Engineer	\$150.00/Hour
Assistant Resident Engineer	\$130.00/Hour
Designer III	\$100.00/Hour
Designer II	\$90.00/Hour
Designer I	\$85.00/Hour
<b>SURVEYING STAFF</b>	
Survey Project Manager	\$160.00/Hour
2 Man Survey Crew with GPS (Overtime)	\$425.00/Hour
2 Man Survey Crew with GPS	\$350.00/Hour
1 Man Survey Crew with GPS	\$240.00/Hour
Survey Travel Time	Crew Rate x 50%
<b>NOTES:</b>	
1. The minimum time charged for survey project is 1/2 day (4 hours at the crew rates plus travel time).	
2. Crew charges include standard surveying equipment. Rental of any special equipment will be charged at cost plus 15%.	
<b>ADMINISTRATIVE SUPPORT SERVICES</b>	
Senior Administrator	\$100.00/Hour
Word Processor	\$75.00/Hour
Office Technician/Courier	\$70.00/Hour
<b>REIMBURSABLE EXPENSES</b>	
Photocopies (each)	\$0.35
Plots (per square foot in color)	\$2.00
Plots (per square foot in black & white)	\$1.25
Computer Plotter	\$25.00/Hour
Postage	Cost + 15%
Vehicle Mileage	\$0.67
Reproduction, Special Photography, Printing, etc. performed by Subcontractor, Aerial Photogrammetry, Delivery Service,	Cost + 15%
Hotel/Motel Per Diem Expenses	Cost + 15%



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
6/5/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Cavignac 451 A Street, Suite 1800 San Diego CA 92101	<b>CONTACT NAME:</b> Certificate Department	
	<b>PHONE (A/C, No, Ext):</b> 619-744-0574	<b>FAX (A/C, No):</b> 619-234-8801
<b>E-MAIL ADDRESS:</b> certificates@cavignac.com		
<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
<b>INSURER A :</b> Berkley Insurance Company		32603
<b>INSURER B :</b> Citizens Insurance Company of America		264
<b>INSURER C :</b> Allmerica Financial Benefit Insurance Co.		41840
<b>INSURER D :</b>		
<b>INSURER E :</b>		
<b>INSURER F :</b>		

**COVERAGES**      **CERTIFICATE NUMBER:** 2128216293      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDISUER		POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
		INSR	WVD					
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC OTHER:			OB3J59397600	11/12/2023	11/12/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000 Deductible \$ 0	
C	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY			AW3J59362400	11/12/2023	11/12/2024	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$	
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE  <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$	
B	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY <input type="checkbox"/> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			WB3J59362300	11/12/2023	11/12/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000	
A	Professional Liability			AEC907212502	11/12/2023	11/12/2024	Ea Claim & Aggreg \$5,000,000	

DESCRIPTION OF OPERATIONS / VEHICLES (ACORD 101, Additional Schedule, may be attached if more space is required)


<b>CERTIFICATE HOLDER</b>	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	<b>AUTHORIZED REPRESENTATIVE</b> 



EXHIBIT A

PROPOSAL ACKNOWLEDGEMENT FORM

The Proposer hereby acknowledges receipt of addenda number(s) 1, if any.

By signing below, the Proposer agrees to all terms and conditions in this RFP, except where expressly described in the Proposer's Services Proposal.

Original Signature by Authorized Officer/Agent

33-0417246  
Vendor's Tax ID Number (FEIN)

James G. "Jack Holt  
Type/Print Name of Signatory

The Holt Group  
Company Name

Secretary/CFO  
Title

(760) 337-3883  
Phone Number

1601 N. Imperial Avenue El Centro, CA 92243  
Consultant Mailing Address

(760) 337-5997  
Fax Number

www.theholtgroup.net  
Website Address

jack@theholtgroup.net  
E-mail Address

Form of Business (mark one of the following):

- Sole Proprietor/Individual
- Partnership
- Corporation
- Limited Liability Company (LLC)

If a corporation, the State where it is incorporated: California



**CITY OF IMPERIAL**  
**ON CALL CIVIL ENGINEERING SERVICES**

**RFP 2024-04**

**ADDENDUM NO. 1**  
**7/18/2024**

**NOTICE TO ALL POTENTIAL RESPONDENTS**

The Request for Proposals (RFP) is modified as set forth in this addendum. The original RFP Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the RFP. Respondent shall take this Addendum into consideration when preparing and submitting its Proposal.

**Question No. 1:**      **On Section VIII - Evaluation Criteria, the Cost has an approximate weight of 10%, if the cost is related to a fee schedule, how will the rates be scored?**

*Disregard original evaluation criteria. Revised criteria outlined below:*

1	<i>Proposal Content and Format</i>	5 pts
2	<i>Consultant Experience</i> <ul style="list-style-type: none"> <li>• Qualifications and relevant experience of Consultant and subconsultant personnel</li> </ul>	30 pts
3	<i>Contract Understanding</i> <ul style="list-style-type: none"> <li>• Understanding of the on-call contract and work by task order</li> </ul>	30 pts
4	<i>Firm's Capabilities</i> <ul style="list-style-type: none"> <li>• Demonstrated capability on similar or related projects</li> <li>• Methods to be used in the performance of civil engineering tasks</li> <li>• Approach to maintaining quality of work and const control</li> <li>• Commitment to availability of personnel assigned to the contact for task order work on short notice</li> </ul>	35 pts

**Question No. 2:**      **Do the selected firms have to be able to provide all the requested services under the SCOPE OF SERVICES?**

*No, the consultant does not need to be able to provide all requested services under the "Scope of Services". List is for reference and adjustments can be discussed after contract award.*

**Question No. 3:**      **The RFP states, "the proposal shall be limited to twenty-five (25) double-sided pages". Can the proposal be fifty (50) single-sided pages, or is the requirement to have double-sided pages?**

*It is requested consultants adhere to the 25 double sided pages requirement outlined within the RFP for hard copy proposals. However, the PDF submittal will be 50 single sided pages as it is electronic format.*

**Question No. 4:** Item 8 (Page 8 of the RFP) states that the proposal should include a Fee Schedule of the Consultants Rates, inclusive of reimbursement costs. Please clarify if the reimbursement costs can be provided as a separate fee schedule or if the reimbursement costs should be included within our hourly rates.

*Reimbursement costs are to be included as a separate fee schedule. Do not include within hourly rates.*

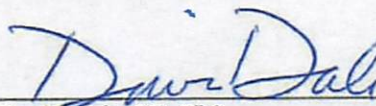
**Question No. 5:** Confirm that 25 pages double-sided means 50 pages digitally for RFP No. 2024-04?

*Correct. It is 25 pages double sided for hard copy proposals and 50 pages single sided for electronic/PDF submittal.*

**Note No. 1:** References being provided are to be individuals/agencies other than City of Imperial employees or officials.

Please acknowledge receipt of this addendum by signing and returning a copy of the Acceptance of Notice via email to [jguerrero@imperial.ca.gov](mailto:jguerrero@imperial.ca.gov). Each bidder must acknowledge receipt of this addendum in the noted space below and on the Proposal Acknowledgment Form (Exhibit A) of the RFP.

**Include a copy of this addendum with your Bid Proposal Package. It is the Potential Respondent's responsibility to notify its outsourcing partners, if any, about changes based on all addendums.**

  
\_\_\_\_\_  
David Dale, PE. PLS  
Public Services Director

Date: 7/18/24

**ACCEPTANCE OF NOTICE**

Receipt of the ADDENDUM No. 1 is hereby acknowledged by:

The Holt Group, Inc.  
Bidder's Company Name

Date: 07/26/2024

By: James G. "Jack Holt  
Type of Print Name & Signature



Title: Secretary/CFO

City of Imperial

# ON-CALL CIVIL ENGINEERING SERVICES

RFP NO. 2024-04

July 26, 2024

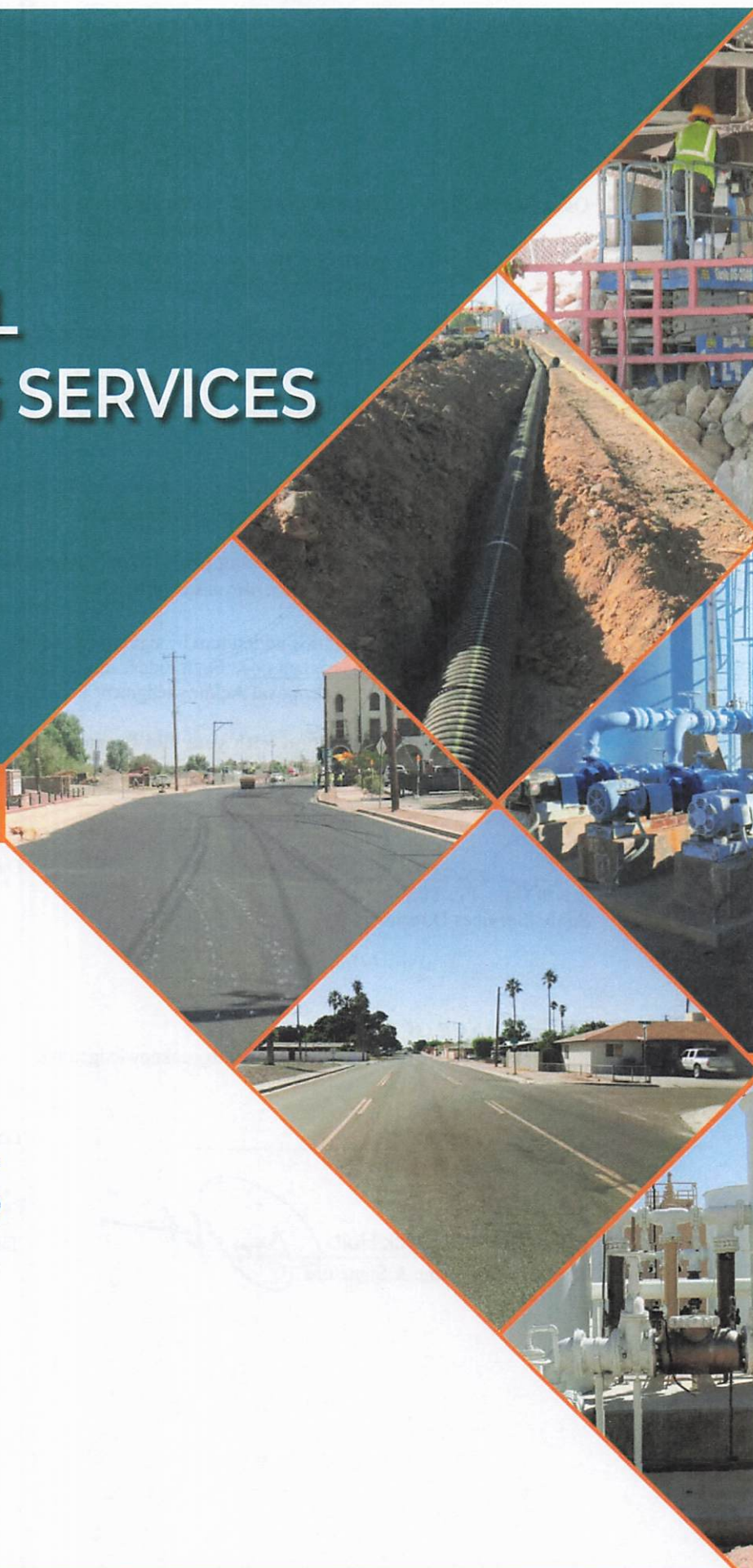


**NICKLAUS**  
ENGINEERING, INC.

& teaming partner



**DESERT  
SURVEYING &  
ENGINEERING**  
DESERTSURVEYING.COM



# table of contents

**Cover Letter • 2**

**Summary of Qualifications and Experience • 4**

**Appendix A - Key Personnel Qualifications • A-1**

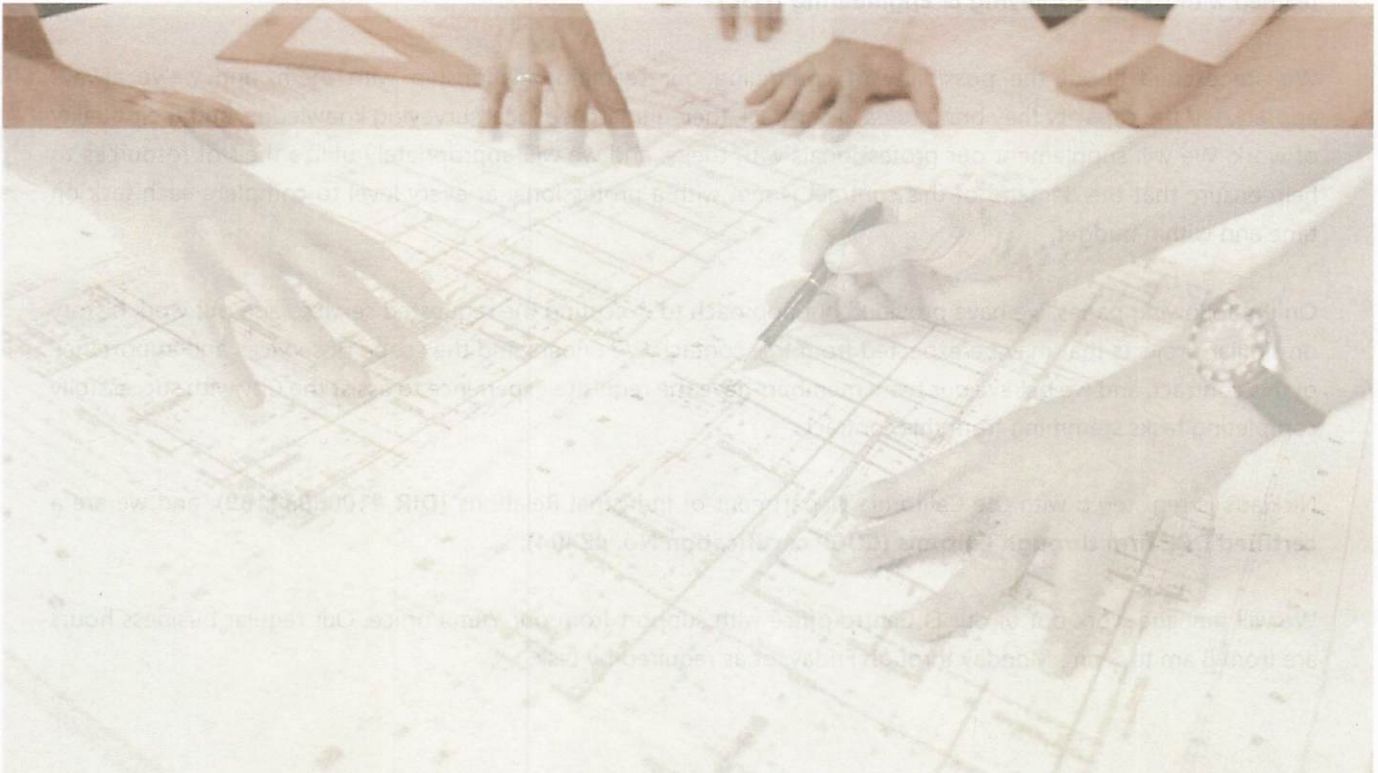
**Qualifications and Experience • 6**

**Analysis of Effort/Methodology • 17**

**EXHIBIT A – PROPOSAL ACKNOWLEDGEMENT FORM • 22**

**EXHIBIT C – INSURANCE REQUIREMENTS Certificate of Insurance • 23**

**FEE SCHEDULE OF HOURLY RATES • 24**





July, 26, 2024

City of Imperial  
Public Services Department  
420 S. Imperial Ave  
Imperial, CA 92251

**REFERENCE: ON-CALL CIVIL ENGINEERING SERVICES; RFP NO. 2024-04**

Dear Selection Committee:

On behalf of the **Nicklaus Engineering, Inc. (Nicklaus)** team, please accept the following as our formal response to provide the **City of Imperial (City)** with **On-Call Civil Engineering Services**.

We appreciate the opportunity to submit our proposal and are excited about working with the City on this exciting contract. **Nicklaus is a 100% woman-owned small business (WOSB) with over four decades of working within the desert southwest.** We have faithfully serviced the Imperial County area and the municipalities within for decades, providing quality, local, and professional architecture and engineering services on numerous projects. Our technical competence and responsiveness have been measured at every level by nearly all the current local municipal personnel on some of the most challenging projects. We want to ensure the City that we will bring the same enthusiasm and technical expertise to this contract as we've done for all the others. In this pursuit, we've teamed with **Desert Surveying & Engineering (DSE)**.

We are excited about the possibility of continuing our teaming relationship with them, and we've always appreciated the capacity they bring to each contract, their unmatched local surveying knowledge, and their quality of work. We will supplement our professionals with theirs, and we will appropriately utilize their resources to help ensure that the demand of this contract is met with a professional at every level to complete each task on time and within budget.

On the following pages, we have provided our approach to executing the requested services and our work history on similar projects that may be expected from this contract. We understand the scope of services and importance of this contract, and we believe our team members have the requisite experience to assist the City with successfully completing tasks stemming from this contract.

Nicklaus is registered with the California Department of Industrial Relations (**DIR #1000034189**), and we are a **certified DBE firm through Caltrans (CUCP certification No. 42404)**.

We will manage work out of our El Centro office with support from our Yuma office. Our regular business hours are from 8 am to 5 pm, Monday through Friday, or as required by task.

*The key individuals authorized to respond to this RFP are:*

**Antonio Alvarez PE, Vice President**

Registered Engineer (Civil): CA # C79509

**(928) 246-1616**

1461 Main Street, El Centro, CA 92243

[aalvarez@neiaw.com](mailto:aalvarez@neiaw.com)

**Stacy Gutierrez, PE, CIH, President/CEO**

Registered Engineer (Environmental): AZ #36702

**(928) 344-8374; ext. 435**

1851 W. 24th Street, Suite 101, Yuma, AZ 85364

[stacyg@neiaw.com](mailto:stacyg@neiaw.com)

We have attached acknowledgement on the Proposal Acknowledgment Form (**Exhibit A**) at the end of this proposal response and additionally email per the RFP requests to [jguerrero@imperial.ca.gov](mailto:jguerrero@imperial.ca.gov). **Nicklaus has no Exceptions and Deviations** from the requirements of this RFP, segregating "technical" exceptions from "contractual" exceptions.

**Our offer is valid for 90 days.** Should you have any questions regarding our written proposal, our firm, or our team members, please do not hesitate to contact me at (928) 246-1616 (Cell).

Sincerely,

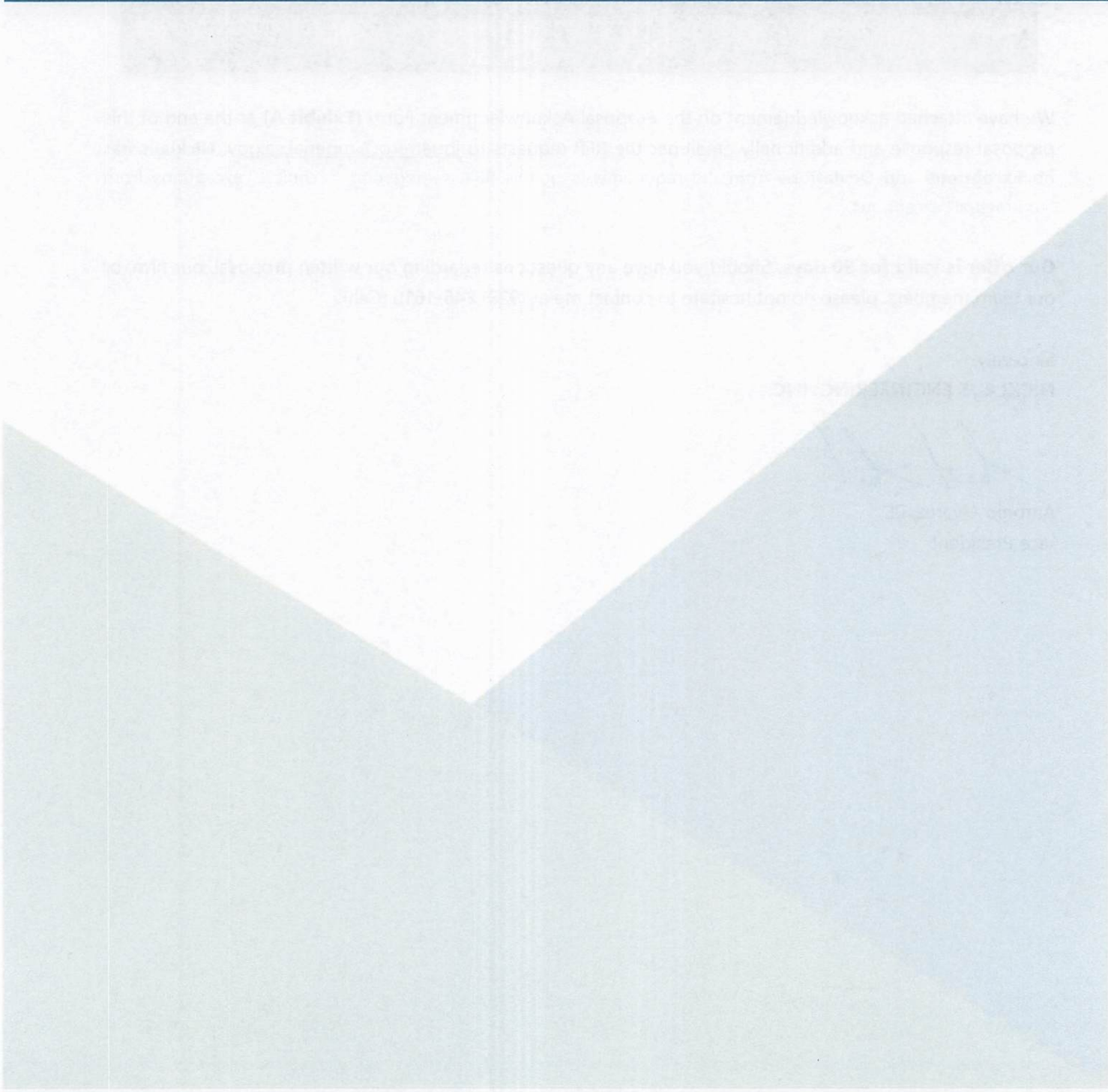
**NICKLAUS ENGINEERING, INC.**



Antonio Alvarez, PE

Vice President

# SUMMARY OF QUALIFICATIONS AND EXPERIENCE



**Founded in 1977 as a civil engineering and survey firm, Nicklaus is a corporation that started to support its clients in responsible and professional infrastructure development through a practical solutions approach in Architectural and Engineering (A/E).**

Over four decades later, Nicklaus has rooted itself as a reliable **Disadvantaged Business Enterprise (DBE)** and **Woman Owned Small Business (WOSB)**, providing full-service engineering and architectural services to both the private and public sectors in Imperial County, Yuma County and across the United States. Nicklaus provided more than \$27.5M in consulting services for local, state, and federal clients in 2023, providing **A/E Services** via On-Call Contracts for the City of El Centro, Imperial County, the United States Army Corps of Engineers, the US Air Force, the US Navy, Yuma International Airport, and US Customs and Border Protection on construction projects valued from local-level projects less than \$1M to national-level contracts over \$100M.

Our local presence has allowed us to build upon our knowledge of the unique issues and conditions in the Imperial Valley and assemble a team that brings exceptional expertise in Civil, Environmental, and Geotechnical Engineering.

**FIRM LOCATION:**

**Our local office is at 1461 Main Street in El Centro, CA.** In addition, our corporate office will support our local office from 1851 W. 24th Street in Yuma, AZ.

**OWNER:**

**As the owner of Nicklaus, Ms. Stacy Gutierrez** has a vested interest in the success of this contract. Ms. Gutierrez is a registered professional engineer (Environmental - Arizona) and Certified Industrial Hygienist (CIH) with over 20 years of design and construction experience.

**LOCATION OF ANTICIPATED WORK:**

Most of the work will be completed at our local office while supported by our corporate office, located at 1851 W. 24th Street, Suite 101, in Yuma, AZ.

**Nicklaus has 109 employees**, including registered civil and environmental engineers, civil designers, construction managers and inspectors, architects, environmental professionals, geotechnical laboratory technicians, and other technical and administrative support staff.

**SUBCONSULTANT:**

***Our subconsultant is listed below with a brief description of their services provided:***



**DESERT SURVEYING & ENGINEERING, INC. (DSE)** was founded locally by Gordon Olson, a registered Civil Engineer.

Desert Surveying works with clients and public agencies in coordinating and processing project development from conceptual design and tentative mapping through the recordation of final maps for residential, commercial, and industrial projects and served as Acting City Surveyor for several cities in Southern California.

***Qualifications and work experience for the following key staff members begin on page A-1 of this proposal:***

<b>Antonio Alvarez, PE</b>	<b>Project Manager/ Civil Engineer</b>
<b>Phillip Ramirez, PE</b>	<b>Resident Engineer</b>
<b>Alan Jorgensen</b>	<b>Architect</b>
<b>Stacy Gutierrez, PE, CIH</b>	<b>Environmental Engineer</b>
<b>Mohammad Joolazadeh, PE, GE</b>	<b>Geotechnical Engineer</b>
<b>Craig Chase, PG, CEG</b>	<b>Engineering Geologist</b>
<b>Steve Moran, CQM</b>	<b>Cost Estimator</b>
<b>Karla Be</b>	<b>Construction Inspector</b>
<b>Gordon Olson, PE, RLS</b>	<b>Land Surveyor Consultant</b>

# Summary of Qualifications and Experience

## CLIENT REFERENCES:

### John Gay, PE

Director of Public Works

Imperial County Department of Public Works

PH: (442) 265-1818

### Abraham Campos, PE

City Engineer/Public Works Dir.

City of El Centro Department of Public Works

PH: (760) 337-5182

### Jade Padilla

Program Manager

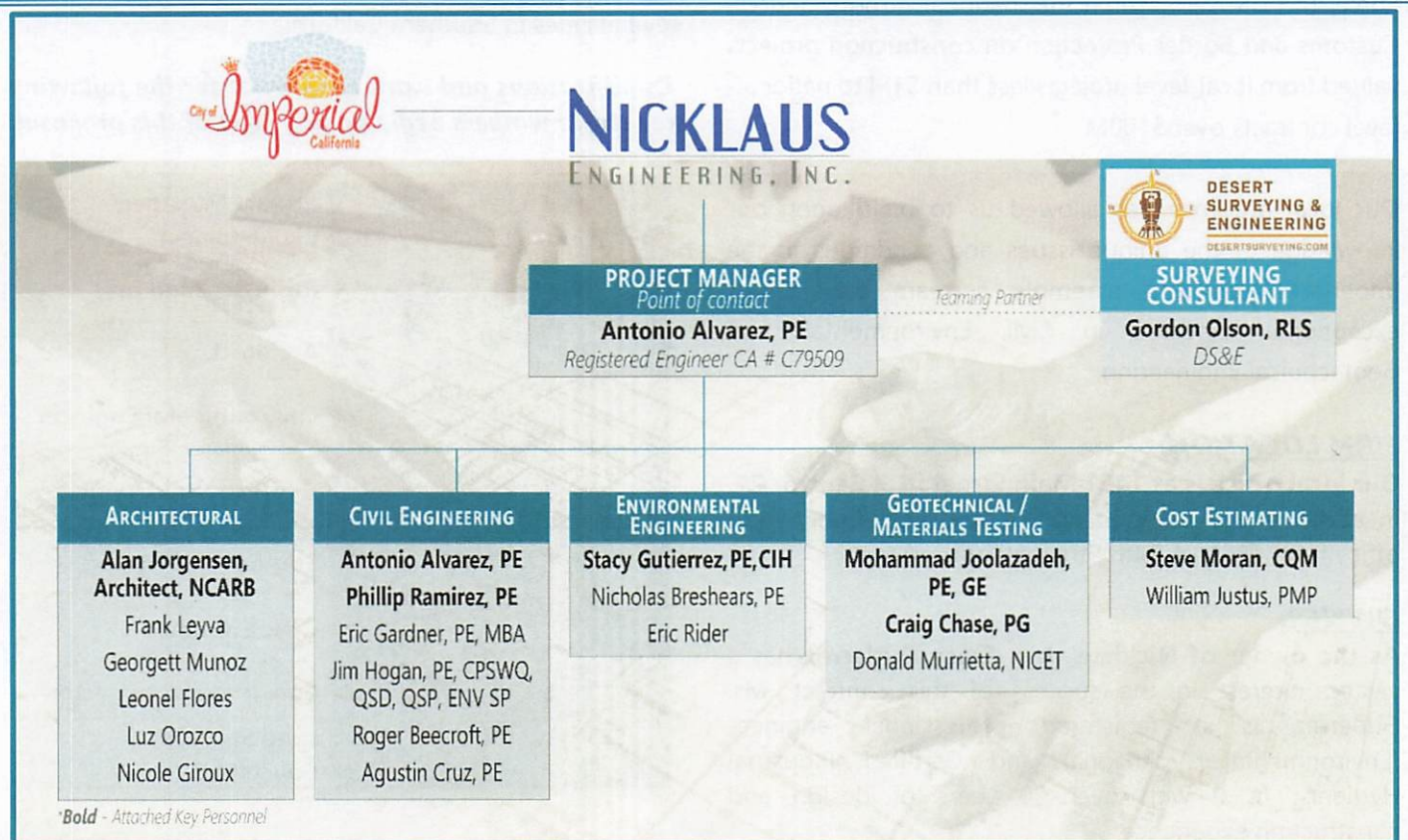
Imperial County Workforce and Economic Development

PH: (442) 265-1104

*Specific experience and qualifications begin on page 6 of this proposal:*

1.	<b>Main Street Lighting &amp; Other Improvements</b> <b>Design Engineering</b> El Centro, CA
2.	<b>On-Call Water &amp; Wastewater Improvements</b> <b>Design Engineering</b> Winterhaven, CA

3.	<b>Gila Street Improvements</b> <b>Design Engineering</b> Yuma, AZ
4.	<b>22<sup>nd</sup> Street Improvements</b> <b>Design Engineering</b> Yuma, AZ
5.	<b>On-Call Water Treatment Plan Expansion</b> <b>Design Engineering</b> Wellton, AZ
6.	<b>Hawk Street Improvements</b> <b>Resident Engineering &amp; Construction Inspection</b> Heber, CA
7.	<b>Winterhaven Sewer Force Main</b> <b>Design Engineering</b> Winterhaven, CA
8.	<b>El Centro Police Station</b> <b>Design Engineering</b> El Centro, CA
9.	<b>Cruickshank Road Illegal Disposal Site</b> <b>Resident Engineering &amp; Construction Inspection</b> Imperial County and El Centro, CA
10.	<b>Quechan Community Building</b> <b>Design Engineering</b> Winterhaven, CA
11.	<b>As-Needed Geotechnical Engineering</b> <b>Geotechnical &amp; Materials Testing</b> Imperial County, CA





**EDUCATION**

B.S., Civil Engineering  
San Diego State University

**PROFESSIONAL REGISTRATIONS**

**Civil Engineering**  
CA #C79509  
AZ #51919

**RELEVANT TRAINING**

CALTRANS Resident Engineer  
Academy

US Army Corps of Engineers-  
Construction Quality  
Management for Contractors  
(CQM)

Radiation Safety Officer  
Training

Nuclear Gauge Radiation  
Safety Training

ACI Field Technician Level 1

ACI Concrete Strength Testing  
Technician

**PROFESSIONAL AFFILIATIONS**

Society of American  
Military Engineers (SAME)

American Society of  
Civil Engineers (ASCE)

American Society of  
Professional Engineers (ASPE)

Arizona Airports Association  
(AZAA)

**Antonio Alvarez, PE**

## Project Manager / Civil Engineer

Mr. Alvarez is a former member of the United States Navy and has 19 years of civil and geotechnical engineering experience. His experience spans horizontal A/E design services, including pre-design assessments, feasibility and concept studies, investigations, soil engineering and seismic analysis, surveying and mapping, site design, value engineering, cost estimating, construction management and inspections, record drawings, and post-design review. Mr. Alvarez's responsibilities include coordination between the contractor and the respective design disciplines and stakeholders from the Notice to Proceed into construction and through to the Notice of Completion. His experience working on Construction Management projects includes RFI management, submittal management, change order management, quantity takeoff verification, progress payment review, labor compliance coordination, evaluation and documentation of as-builts, observation, weekly progress meetings, contract administration services as required to sufficiently warrant the construction has been accomplished in accordance with the plans, specifications, and codes; project records administration; and discipline(s) coordination.

**RELEVANT EXPERIENCE:****MAIN STREET LIGHTING & OTHER IMPROVEMENTS HSIPL-5169 (043) | EL CENTRO, CA**

Prepared Street improvement plans to construct sidewalks and necessary drainage facilities along the east side of Dogwood Road from Danenberg Drive to the South City Limits. Prepared a conceptual design report that included a drainage study on Dogwood Road, where the off-site improvements were constructed. Improvements also included Rectangular Rapid Flashing Beacons at various City of El Centro locations and pedestrian level lighting along Main Street and State Street downtown.

**EL CENTRO POLICE STATION | EL CENTRO, CA**

Nicklaus provided the civil design for a new City of El Centro Police Station. Services included the design of demolition, site, paving and grading, and utility plans. Mr. Alvarez was designer of record for the project, which included street side improvements along 11th Street.

**CITY OF YUMA UTILITIES ADMIN COMPLEX | YUMA, AZ**

The City of Yuma hired Nicklaus to provide architectural and engineering design services for a new 20,000 sq. ft. Utilities Department Administration Complex and Maintenance Yard. Served as the Civil Engineer and Geotechnical Engineer of Record for this project. Managed all geotechnical field and laboratory operations, prepared and stamped the geotechnical report, plans, and provided civil design recommendations. Oversaw all the civil, geotechnical, environmental, surveying, bidding, construction administration and inspection services for the project.

**EDUCATION**

B.S. Structural Engineering  
University of California  
San Diego

**PROFESSIONAL REGISTRATIONS**

**Civil Engineering**  
CA #C91488

**RELEVANT TRAINING**

CALTRANS Resident  
Engineer Academy

EM 385-1-1 Certified

**PROFESSIONAL AFFILIATIONS**

ASCE American Society of  
Civil Engineers

**Phillip A Ramirez, PE**

## Resident Engineer

**Mr. Ramirez** has worked for various public agencies, spanning more than 10 years of combined experience with the requirements for both private and public-funded construction projects. Mr. Ramirez's primary function as a resident engineer is to oversee the day-to-day operations of the civil, geotechnical, and inspection staff. His responsibilities include coordination between the contractor and the respective design disciplines and stakeholders from the Notice to Proceed into construction and through to the Notice of Completion. Mr. Ramirez's experience working on resident engineer projects includes RFI review, submittal review, change order review, quantity takeoff verification, progress payment review, labor compliance coordination, evaluation and documentation of as-builts, observation, weekly progress meetings; contract administration services as required to sufficiently warrant the construction has been accomplished in accordance with the plans, specifications, and codes; project records administration; and discipline(s) coordination.

**RELEVANT EXPERIENCE:****NILAND MAIN STREET IMPROVEMENTS | NILAND, CA**

The project consisted of rehabilitating the north side of Main St. between Highway 111 and Memphis Ave. The project includes demolishing the existing pavement section and installing a new pavement section, curb and gutter, driveways, and pedestrian facilities along Main St. between Highway 111 and Memphis Ave. Assistant Resident Engineer, which includes site inspections and documentation during the construction phase to verify compliance with the contract documents. He also reviews and processes pay applications and change orders, leads meetings, and coordinates submittals and RFI reviews.

**WESTERN AVENUE IMPROVEMENTS | BRAWLEY, CA**

This project included installing a roadway paving section, streetlights, water main line, storm drain main line, manholes, catch basins, pipelining of raw water channel, and pedestrian facilities (sidewalks and ramps). Served as the Resident Engineer as part of the engineering division staff, which included site inspections and revision of pertinent documents during the construction phase to verify compliance with funding sources, plans, specifications, and bid schedule. Duties also included reviewing and processing pay applications and change orders, leading the weekly meetings, and coordinating submittals and RFI reviews.

**WILLEY RESERVOIR & NEW RIVER EROSION CONTROL | WESTMORLAND, CA**

This project included the redesign of the shared embankment between Willey Reservoir and New River. Imperial Irrigation District engineering department proposed a sloped cut of the south side of New River with the installation of rip rap material along the slope. Served as the construction inspector as part of Imperial Irrigation District staff, which involved documenting material tickets, daily reports, coordination with contractors, keeping track of the project budget, and close-out documents.



## Alan Jorgensen, Architect, NCARB

### Senior Architect

**Mr. Jorgensen** has over 45 years of experience serving municipal, educational, government, health care, religious, commercial, and residential clients. His responsibilities include client service and marketing, contract negotiation, project management, design, construction documents, and construction administration. He has worked as a principal, office manager, designer, and project manager for firms located in Idaho, Utah, and Arizona, as well as his own practice. Mr. Jorgensen is certified by the National Council of Architectural Registration Boards and is registered to practice in California, Arizona, Nevada, Utah, and Texas. Over the course of his career, he has had experience with an extensive group of project types. Many of them have been very large, complex projects for which he has gained much experience working with and managing large and diverse project teams.

#### **EDUCATION**

Bachelor of Architecture  
(B Arch.)  
Idaho State University

#### **PROFESSIONAL REGISTRATIONS**

##### **Architecture**

CA #C-31291  
AZ #13592  
NV #2062  
Utah #119829-030  
Texas #28799

#### **RELEVANT TRAINING**

National Council of  
Architectural Registration  
Boards (NCARB)

Military Former 2LT Idaho  
Army; National Guard

Combat Engineers

Armored Cavalry

#### **RELEVANT EXPERIENCE:**

##### **CITY OF YUMA UTILITIES ADMINISTRATION BUILDING | YUMA, AZ**

Responsible for providing senior professional oversight and review of the design work. A City Government Project was originally delivered using CMAR. However, the Owner changed to Design-Bid-Build delivery after the construction documents were completed. This required significant effort to accommodate a last-minute change in the project delivery method. The building houses administration, training, utility equipment work areas, and materials storage for the City of Yuma Utilities Management Department.

##### **TOWN OF WELTON FIRE STATION EXPANSION AND RENOVATION | WELTON, AZ**

Responsible for providing senior professional oversight and review of the design work. It started as a basic operational garage and has been added on to several times. During the current addition, it was determined that the rest of the project needed to be upgraded to current building codes. Numerous cost challenges required adjustments to the project scope.

##### **RENOVATIONS FOR YUMA COUNTY HEALTH DEPARTMENT | YUMA, AZ**

New site grading and landscaping and renovation to repair mold and water damage to the building exterior. Principal-in-charge and was responsible for full services from design through construction administration.

##### **NEW OFFICE BUILDING FOR YUMA COUNTY FARM BUREAU | YUMA, AZ**

Significant design value, representing today's high-tech farming industry, is a key component of this new 3500 sf, Class A commercial office and conference/meeting center for the Yuma County Farm Bureau. Principal in charge and participated in the performance of all phases of the work.

**EDUCATION**

MS, Applied Science;  
Arizona State University  
BS, Environmental  
Engineering;  
Cal Poly San Luis Obispo

**PROFESSIONAL REGISTRATIONS****Environmental Engineering**

AZ #36702  
NV #22766  
TX #133183  
Certified Industrial Hygienist  
#9210

**RELEVANT TRAINING**

Certified Asbestos Consultant  
(CAC), USACE CQM Certified  
Qualified SWPPP  
Developer/Practitioner  
(QSD/QSP) #25158;  
Certified Prof. Stormwater  
Quality (CPSWQ); Qualified  
SWPPP Developer/Practitioner  
(QSD/QSP); EM385-1-1  
Certified; OSHA 30hr  
Construction Safety & Health;  
OSHA 40hr HAZWOPER;  
OSHA 8hr HAZWOPER  
Supervisor; AHERA Asbestos  
Inspector/Management  
Planner/  
Contractor/Supervisor/ Project  
Designer; Certified Asbestos  
Consultant (CAC); EPA  
Certified Lead Based; Paint  
Inspector /Assessor

**Stacy Gutierrez, PE, CIH****Environmental Engineer**

**Ms. Gutierrez** has over 28 years of technical experience managing environmental and civil engineering projects. She has a long history of regulatory compliance work, including being the lead engineer for landfill design and permitting. Her experience includes remediation system design, environmental assessments, Stormwater Pollution Prevention Plans (SWPPP), erosion and sediment control design, water and wastewater design, environmental assessments, asbestos and lead-based paint management, and full-service industrial hygiene services. Ms. Gutierrez is a Certified Industrial Hygienist and is EM385 certified for safety compliance. Her thorough understanding of job site activities as an Environmental Engineer, combined with her strong background in health and safety, offers a unique benefit to clients. Ms. Gutierrez has performed environmental engineering services for many clients, including Imperial County, City of El Centro, City of Yuma, Yuma County, City of San Luis, City of Somerton, the Quechan Indian Tribe, ADOT, Bureau of Indian Affairs, the Bureau of Land Management, and the Department of Defense.

**RELEVANT EXPERIENCE:****CITY OF YUMA ON-CALL PROFESSIONAL ENVIRONMENTAL SERVICES | YUMA, AZ**

Responsible for managing the contract to provide professional services to the City of Yuma through an existing "On-Call" contract that includes the following services: Asbestos Inspections, Lead-Based Paint Inspections/ Assessments, Indoor Air Quality Investigations, Industrial Hygiene Assessments, Environmental Site Assessments, Land Acquisition EAs for NEPA Compliance, UST Removals, Phase II Investigations (Site Sampling), Phase III Remediation, and Environmental Consultation.

**WINTERHAVEN SEWER FORCE MAIN REPLACEMENT – 4<sup>TH</sup> AVE. BRIDGE | IMPERIAL COUNTY, CA**

Responsible for managing this emergency sewer line replacement project for Imperial County. The sewer line serving the Winterhaven community extends from California to Arizona across the 4<sup>th</sup> Avenue Bridge. This sewer line crosses the Colorado River, Bureau of Reclamation Drainage Easement, and the City of Yuma Pedestrian and Bike Path. Nicklaus was contacted when the sewer line began leaking raw sewage onto the pedestrian walkway below the bridge. Nicklaus was responsible for the investigation, design, permitting, and construction supervision for this sewer line replacement project. This project involved coordination and permitting with many agencies including Imperial County, Winterhaven Water District, Arizona Department of Transportation, Bureau of Reclamation, and the City of Yuma.

**BUILDING 189 DRAINAGE IMPROVEMENTS | NAF EL CENTRO, CA**

Managed this design/build project to improve drainage near Building 189 for Naval Air Facility (NAF) El Centro on the existing airfield. Served as Project Manager and was responsible for the overall planning and oversight of the design and construction. Her responsibilities included the coordination of appropriate personnel; responding to RFIs, weekly site visits, and review of final record documents.

## Mohammad Joolazadeh PE, GE

### Geotechnical Engineer

#### EDUCATION

MS, Geological Engineering,  
University of Idaho  
BS, Geology,  
Pahlavi University

#### PROFESSIONAL REGISTRATIONS

**Geotechnical Engineer**  
CA #2199

**Civil Engineer**  
CA #43474  
AZ #30739  
NV #12622  
CO #33946

#### RELEVANT CERTIFICATIONS

Advanced Certificate in  
Construction Management

#### PROFESSIONAL AFFILIATIONS

American Society of Civil  
Engineers (ASCE)  
Earthquake Engineering  
Research Institute (EERI)  
Deep Foundations Institute (DFI)  
American Society for Testing &  
Materials (ASTM)  
Post-Tension Institute (PTI)  
California Geotechnical  
Engineers Association (CGEA)

**Mr. Joolazadeh** has over 40 years of geotechnical engineering experience. He has worked on and managed a wide range of projects, including residential and small commercial developments, heavy industrial facilities, ports and harbors, tank farms, educational institutions, health organizations, and correctional facilities. Additionally, he has managed and participated in numerous forensic evaluations throughout California, Nevada, and Arizona. His administrative responsibilities have included business planning and technical, professional, and marketing duties. Specific responsibilities include contract preparation and administration, financial planning, and developing quality assurance programs.

#### RELEVANT EXPERIENCE

##### **RECLAIM SUNSET PROJECT, SOUTHERN CALIFORNIA GAS COMPANY ALISO CANYON GAS STORAGE FACILITY | NORTHRIDGE, CA**

Managed and performed Geotechnical investigation for the modifications and improvements required to comply with South Coast Air Quality Management District (SCAQMD) Rule.

##### **MORENO VALLEY GAS COMPRESSOR STATION | MORENO VALLEY, CA**

Managed and performed geotechnical investigation for the proposed new compressors and support of the gas distribution systems.  
Client: Southern California Gas Company.

##### **SDG&E LINE 1600 PLS AT RAINBOW METER STATION | TEMECULA, CA**

Managed and performed a geotechnical investigation for the proposed new gas distribution system to the south of an existing Rainbow Meter Station.  
Client: Southern California Gas Comp

##### **NORTH NEEDLES COMPRESSOR STATION NO.21 | NEEDLES, CA**

Managed and performed geotechnical investigation for the New Air Compressors and gas pipeline distribution system. Client: Southern California Gas Company.

##### **GEOTECHNICAL INVESTIGATION FOR CRANE SUPPORT STRUCTURE BOEING FACILITY | HUNTINGTON BEACH, CA**

Performed the geotechnical investigation and prepared geotechnical design criteria for constructing an independent support structure for two new 25-Ton cranes in Boeing Building 45.

**EDUCATION**

B.S., Civil Engineering  
San Diego State University  
Environmental Science,  
California State University

**PROFESSIONAL REGISTRATIONS****Professional Geologist**

CA #7045

AZ #36526

OR #G1952

TX #15077

**Certified Engineering Geologist**

CA #2225

**RELEVANT TRAINING**

Geological Society of America  
(GSA)

Association of Engineering  
Geologists (AEG)

OSHA 40hr HAZWOPER

OSHA 8hr HAZWOPER  
Refresher

OSHA 10hr Construction

OSHA Construction  
Confined Space

Nuclear Gauge Operator

Radiation Safety Officer

DHS Level I Antiterrorism  
Awareness

USACE EM 385-1-1

CPR/First Aid Certified

**Craig Chase, PG, CEG****Engineering Geologist**

**Mr. Chase** has 30 years of project management and field experience in geotechnical and environmental engineering, focused on engineering geology, environmental geology, UST sites, geologic hazards, groundwater sampling, hydrogeology, construction defects, and solid waste management. Direct project management and field support of geologic/geotechnical and seismic hazard investigations for residential, commercial, and retail development, municipal infrastructure/modernization/rehabilitation projects, environmental site assessments and investigations, due diligence geotechnical reviews, and report preparation for geotechnical and environmental projects. Extensive field and project management experience, including geologic and geotechnical investigations for geologic/seismic hazards, including landslides, slope failures, earthquake damage, and flooding issues. Helped provide design and construction support for hillside dewatering/drainage devices for landslide stabilization, hydrology calculations, and groundwater/liquefaction evaluations.

**RELEVANT EXPERIENCE:****WATER DISTRIBUTION SYSTEM UPGRADES | WINTERHAVEN, CA**

Performed and project-managed a geotechnical investigation to provide water treatment plant upgrades and replacement of the municipal water distribution system. Prepared geotechnical investigation report, including boring logs, figures, and presentation of laboratory data.

**ASH MAIN CANAL CONCRETE LINING | CALIPATRIA, CA**

Performed geotechnical investigation and provided geotechnical project management and support for the design and construction of a new concrete-lined irrigation channel, including geotechnical report preparation.

**AIR COMMAND COMBAT BUILDING DEMOLITION | SAN BERNARDINO, CA**

Provided as-needed support and construction management for the subject project which included a large, hardened cluster of buildings and outbuildings on the former Norton AFB, as well as the adjacent 80-acre parcel of utilities. The project scope included conducting geophysical and geotechnical surveys and providing construction management services to coordinate demolition, safety monitoring, and site demolition.

**FEDEX MX HANGER FACILITY LOS ANGELES INTERNATIONAL AIRPORT | CA**

Provided project management and geotechnical field support for the geotechnical investigation and during the performance of geotechnical testing and observation services. The project involved the demolition and replacement of the severely damaged portions of the concrete pad/aircraft parking support area covering an approximately 17.319-acre area adjacent to Building 7333 and runways 06R/24L at the FedEx Mx Hanger Facility. Following the demolition of the damaged pavement and site grading of the onsite soils, the new concrete pavement section was reinforced to support heavy cargo aircraft.

**RELEVANT TRAINING**

*USACE Construction Quality Management for Contractors (CQM)*

*EM 385-1-1 40-Hour*

*40-hour HAZWOPER*

*OSHA 30-Hour Construction Safety and Health*

*CPR/AED and Basic First Aid*

*OSHA – Confined Space Entry Program*

*OSHA Fall Protection – Competent Person Certification*

*Spill Prevention Hazardous Waste Management Training*

**Steve Moran, CQM****Cost Estimator**

**Mr. Moran** has been in the construction field for more than 26 years. He has served as a Project Manager, Estimator, Inspector, Site Superintendent, Health and Safety Manager, and Quality Control Manager in his construction career. As an Estimator, Mr. Moran has 24 years of experience as a commercial estimator preparing cost estimates using MII and PACES type of estimating programs such as Winest, Costworks, RSMMeans databases, and other proprietary software for estimation of multi-discipline commercial and industrial construction projects. His experience includes multi-discipline material take-offs and purchasing. Mr. Moran has 12 years of specialized experience with Federal and State Government Contracts, including Single-Award Cost Plus and Award Fee, Cost Plus Fixed Fee, IDIQ, and Firm Fixed Price. He is experienced with Bid/Build, Design/Build and Design/Bid/Build construction contract methodologies, proposal development, construction cost estimation, and contract negotiation. He has estimated multiple projects for various horizontal and vertical construction projects for federal programs. His familiarity with every aspect of the construction industry has made him an expert in the industry, with the skills necessary to be an effective Estimator capable of successfully overseeing construction projects from the planning phase through final completion.

**RELEVANT EXPERIENCE:****BUILDING 2210 RECONSTRUCTION, US ARMY YUMA PROVING GROUND | YUMA, AZ**

Provided cost estimate of change orders consisting of mold remediation and reconstruction of building deficiencies of a 3,200 SF office area, repaving - drainage improvements of existing 18,000 SF building parking lot replacement of 5,300 SF concrete tank crossing and drainage and grading improvements to equipment yard and surrounding areas (25 acres) to include installation of a one new detention basin, two new retention basins, and modification of two existing detention basins.

**RELOCATION OF AFRS COMMAND SECTION HVAC | JBSA, SAN ANTONIO, TX**

Developed a detail cost estimate for each design submission (35%, 65%, 95% & 100%) using unit cost and assembly costs line items to develop the Independent Government Estimate (IGE) for the Government using RSMMeans data base estimating software such as 4Clicks & RSMMeans Online.

**KOFA FIRING RANGE (KFR) UPGRADE SEWAGE LAGOON AT US ARMY YUMA PROVING GROUND | YUMA, AZ**

Developed a cost estimate for a project to provide utility infrastructure improvements for the construction of one new 656,062-gallon facultative lagoon and one 365,200-gallon evaporative lagoon at the existing Kofa Firing Range sewage lagoon complex in compliance with the Arizona Department of Environmental Quality (ADEQ) individual Aquifer Protection Permit Significant Amendment and BADCT requirements.

**EDUCATION**

Bachelors of Architecture  
 Universidad Autonoma de BC  
 (UABC)

**RELEVANT TRAINING**

EM 385-1-1 Certified

OSHA-40-hour HAZWOPER

CPR, Basic First Aid

**Karla Be**

Construction Inspector

**Mrs. Be** has seven years of general construction and design experience. Her experience includes enforcing building codes, quality control inspections, and construction inspections, preparing cost estimates, preparing change orders, building design, and site designs. Mrs. Be primary function as a construction inspector is to perform detailed inspections in general construction, such as road improvements, highway improvements, buildings, and facilities under construction or alteration. She records the time and material received and used in construction and assists in making and checking measurements, levels, and layouts. Ms. Be assists with daily reports, as-builts closeout binders, project records, and warranties to be in place at project completion.

**RELEVANT EXPERIENCE:**

**HERITAGE TRACK HOME HOMES | IMPERIAL, CA**

Oversaw the design and permitting process. Performed as the construction inspector and quality control during the construction phase, coordinating with local entities such as IID, SoCal Gas, Spectrum, and the City of Imperial.

**NILAND MAIN ST. IMPROVEMENT | NILAND, CA**

Provided site inspections and documenting work progress during construction to verify compliance with the contract documents. Generated daily reports, leads weekly meetings, and coordinates submittals and RFI reviews.

**FRYE CHAPEL | IMPERIAL, CA**

Provided coordination between client/agencies, estimates and change orders, all closeout documents, including As-Builts, daily/weekly reports, labor compliance closeout, approval of pay applications, submittals, and RFIs.

**EDUCATION**

B.S. Civil Engineering,  
 University of North Dakota

**PROFESSIONAL REGISTRATIONS**

**Civil Engineering:**

CA #50377  
 AZ #25985  
 NM #18839

**PROFESSIONAL LAND SURVEYOR**

CA #7107  
 AZ #27748  
 NM #19299

**Gordon O. Olson, PE, PLS**

Land Surveyor Consultant



**Mr. Olson** manages the production of all survey mapping and engineering design of DSE's projects, including commercial, residential, and industrial projects. Responsible for the preparation of Tentative Maps, Tract Maps, Grading and Improvement Plans, Utility Plans, Record of Survey Plats, and A.L.T.A. Surveys. Conducts research and evaluates land title documents and information required for fieldwork. He plans, schedules, and analyzes the work of survey crews. Interacts with other professionals, including County, City, and State officials, attorneys, and title officers in the tracking of projects through various entitlement, permitting, plan check, and recordation processes. He prepares proposals for Professional Engineering and Land Surveying services. He has provided On-Call services as Acting City Land Surveyor for the City of Imperial and City of Brawley and has conducted technical reviews of Final Tract Maps and Parcel Maps.

**RELEVANT EXPERIENCE:**

- **PLAN CHECK SERVICES** | City of Imperial and City of Brawley, CA
- **PIONEERS MEMORIAL HOSP. - WOMENS CENTER EXPANSION** | Brawley, CA
- **ERMC - HOSPITAL EXPANSION PROJECT** | El Centro, CA
- **IMPERIAL COUNTY-PALO VERDE PARK IMPROVTS PROJECT** | Palo Verde, CA
- **CHELSEA INVESTMENTS CO - SECTION 8 HOUSING PROJECTS** | EL Centro, Brawley, Imperial, and Holtville, CA

## QUALIFICATIONS AND EXPERIENCE

Mr. [Name] has over 20 years of experience in the construction industry, with a focus on large-scale infrastructure projects. He has a proven track record of managing complex projects from start to finish, ensuring they are completed on time and within budget. His expertise includes project management, cost control, and risk management.

### MR. [Name], [Title], [Company]

Mr. [Name] has over 15 years of experience in the construction industry, with a focus on large-scale infrastructure projects. He has a proven track record of managing complex projects from start to finish, ensuring they are completed on time and within budget. His expertise includes project management, cost control, and risk management.

### MR. [Name], [Title], [Company]

Mr. [Name] has over 10 years of experience in the construction industry, with a focus on large-scale infrastructure projects. He has a proven track record of managing complex projects from start to finish, ensuring they are completed on time and within budget. His expertise includes project management, cost control, and risk management.

### MR. [Name], [Title], [Company]

Mr. [Name] has over 5 years of experience in the construction industry, with a focus on large-scale infrastructure projects. He has a proven track record of managing complex projects from start to finish, ensuring they are completed on time and within budget. His expertise includes project management, cost control, and risk management.

### MR. [Name], [Title], [Company]

Mr. [Name] has over 3 years of experience in the construction industry, with a focus on large-scale infrastructure projects. He has a proven track record of managing complex projects from start to finish, ensuring they are completed on time and within budget. His expertise includes project management, cost control, and risk management.

Mr. [Name] has over 2 years of experience in the construction industry, with a focus on large-scale infrastructure projects. He has a proven track record of managing complex projects from start to finish, ensuring they are completed on time and within budget. His expertise includes project management, cost control, and risk management.

Mr. [Name] has over 1 year of experience in the construction industry, with a focus on large-scale infrastructure projects. He has a proven track record of managing complex projects from start to finish, ensuring they are completed on time and within budget. His expertise includes project management, cost control, and risk management.

Mr. [Name] has over 6 months of experience in the construction industry, with a focus on large-scale infrastructure projects. He has a proven track record of managing complex projects from start to finish, ensuring they are completed on time and within budget. His expertise includes project management, cost control, and risk management.

Mr. [Name] has over 3 months of experience in the construction industry, with a focus on large-scale infrastructure projects. He has a proven track record of managing complex projects from start to finish, ensuring they are completed on time and within budget. His expertise includes project management, cost control, and risk management.

**CLIENT:**

City of El Centro

**CONTACT PERSON:**

Abraham Campos, PE,  
Public Works Director  
(760) 337-5182

[acampos@cityofelcentro.org](mailto:acampos@cityofelcentro.org)

**SCOPE ELEMENTS:**

- ✓ Records Research
- ✓ Permit Documentation Prep
- ✓ Field Survey & Topo Survey
- ✓ Plans, Specs & Estimates (PS&E)
- ✓ Plan Plotting
- ✓ Sealed Construction Documents
- ✓ Bid Assistance
- ✓ RFI Assistance
- ✓ Review & Appr. Addenda

**CONTRACT VALUE:**

**\$96,690**

**CONSTRUCTION VALUE:**

**\$1.8M**

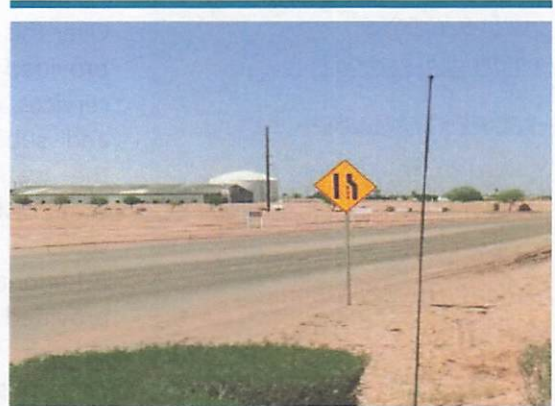
## 1. Main Street Lighting and Other Improvements HSIPL-5169 (043)

El Centro, CA

The City of El Centro retained Nicklaus to perform professional civil design services for a Highway Safety Improvement Program (HSIP) project.

This project consisted of preparing street improvement plans for the construction of sidewalks and necessary drainage facilities along the east side of Dogwood Avenue between Danenberg Drive and the south city limits along the out lots of the Imperial Valley Mall.

Evaluation of the site indicated that stormwater piping was required, and the existing retention basin at the southeast corner of Dogwood and Danenberg needed to be rehabilitated and re-sized.



*Construction of sidewalks, and necessary drainage facilities along the east side of Dogwood Avenue between Danenberg Drive and the south city limits along the out lots of the Imperial Valley Mall.*

The project was combined with two other El Centro area projects, which included street lighting with pedestrian level lighting installed on Main Street and State Street between 4th Street and 8th Street and enhanced pedestrian crossings consisting of solar-powered rectangular rapid flashing beacons at four separate intersections within the El Centro city limits.

Additionally, Nicklaus was contracted to perform all pre-design services, including a topographic survey, using their in-house staff and equipment. Nicklaus provided bidding support and assisted with construction administration support.



**CLIENT:**

Winterhaven Water District

**CONTACT PERSON:**

Rick Miller, General Manager,  
WCWD  
(928) 920-9056  
[whavenca@gmail.com](mailto:whavenca@gmail.com)

**SCOPE ELEMENTS:**

- ✓ Records Research
- ✓ Permit Documentation Prep
- ✓ Field Survey & Topo Survey
- ✓ Plans, Specs & Estimates (PS&E)
- ✓ Plan Plotting
- ✓ Sealed Construction Documents
- ✓ Bid Assistance
- ✓ Attend Pre-Construction Meeting
- ✓ RFI Assistance
- ✓ Design Schedule & Qual. Control
- ✓ Attend Design Meetings
- ✓ Review & Appr. Addenda & Clarity

**CONTRACT VALUE:**

\$133,400

**CONSTRUCTION VALUE:**

\$462,700

## 2. On-Call Professional Engineering Water & Wastewater Improvements

Winterhaven, CA

Over this period, Nicklaus has provided a wide range of services, including the design and subsequent retrofits of the water treatment plant, water distribution system, and sewer collection system. Additionally, Nicklaus has provided emergency support to the WWD on multiple occasions. Most recently, Nicklaus provided design services to upgrade the water distribution and sewer collection systems.

In addition, Nicklaus developed a model of the existing water distribution system to redesign the existing hydro-pneumatic tank that surpassed its usable life and provided a new pump station with variable frequency drive pumps to improve the system efficiency. The new pump station design includes a new control panel with an auto dialer system and shade structure.

In addition, the final water system upgrade will also involve replacing an existing groundwater well pump and controls.

Finally, Nicklaus developed design plans for the sewer collection system for two new sewer manholes and a replacement control panel with an auto-dialer system for the lift station. These projects demonstrated Nicklaus' ability to provide engineering support for Winterhaven's water and wastewater systems on an as-needed basis and our ability to work with limited grant funds.

Due to the aging infrastructure and funding limitations, Nicklaus utilized the existing plant setup and only added new components essential to the plant, reducing construction costs and improving efficiency.



*Nicklaus has acted as the primary design consultant for the Winterhaven Water District for the past 30 years..*

**CLIENT:**

City of Yuma

**CONTACT PERSON:**

Dave Wostenberg,  
Director of Engineering  
(928) 373-5000  
[david.wostenberg@yumaaz.gov](mailto:david.wostenberg@yumaaz.gov)

**SCOPE ELEMENTS:**

- ✓ Records Research
- ✓ Permit Documentation Prep
- ✓ Field Survey & Topo Survey
- ✓ Plans, Specs & Estimates (PS&E)
- ✓ Plan Plotting
- ✓ Sealed Construction Documents
- ✓ Bid Assistance
- ✓ Periodic Field Reviews
- ✓ Design Schedule & Qual. Control
- ✓ Attend Design Meetings
- ✓ Review & Appr. Addenda & Clarity

**CONTRACT VALUE:**

\$66,400

**CONSTRUCTION VALUE:**

\$1.2M

### 3. City of Yuma Gila Street Improvements

Yuma, AZ

The Gila Street Improvements project consisted of improvements along four separate streets near downtown Yuma. The design elements included the following:

- Design of approximately 1,400 tons of 1/2" and 3/4" Hot Mix asphalt pavement, 4,500 tons of ABC base, and engineered subgrade. The design included the mill and overlay on two separate streets and complete reconstruction on one street, curb to curb.
- Design of striping and pavement markings.
- Design of 4 new ADA-compliant sidewalk ramps.
- Evaluation and replacement of distressed Portland cement concrete sidewalk slabs and curb and gutter.
- Demolition of approximately 800 LF of 8" PVC sewer line, 30 LF of 30" DIP waterline, cap, and a 16" CA waterline abandonment.
- Design of 800 LF of 8" PVC sewer main, associated laterals, and 6 sanitary sewer manholes. Sewer design included bypass requirements for bypass pumping operations.
- Design of 300 LF of 8" PVC water main and associated laterals.



*The Gila Street Improvements project consisted of improvements along four separate streets located near downtown Yuma..*

Nicklaus completed design development and construction plans, including plans and profiles, paving and grading plans, striping plans, phasing plans, and associated details. In addition, all pre-design services were completed by Nicklaus, including the Topographic Survey, Geotechnical Investigation, and the coordination of utility locate services.

**CLIENT:**

City of Yuma

**CONTACT PERSON:**

Dave Wostenberg,  
Director of Engineering  
(928) 373-5000

[david.wostenberg@yumaaz.gov](mailto:david.wostenberg@yumaaz.gov)

**SCOPE ELEMENTS:**

- ✓ Records Research
- ✓ Permit Documentation Prep
- ✓ Field Survey & Topo Survey
- ✓ Plans, Specs & Estimates (PS&E)
- ✓ Plan Plotting
- ✓ Sealed Construction Documents
- ✓ Bid Assistance
- ✓ Periodic Field Reviews
- ✓ Design Schedule & Qual. Control
- ✓ Attend Design Meetings
- ✓ Review & Appr. Addenda & Clarity

**CONTRACT VALUE:**

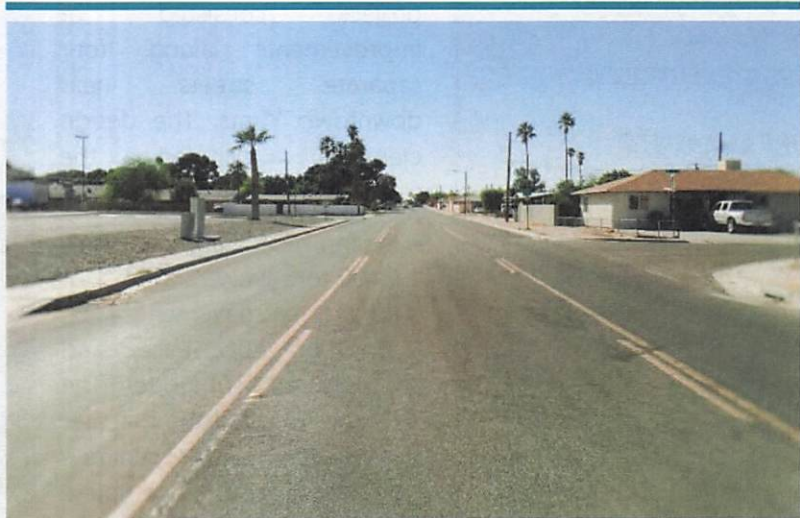
**\$42,575**

**CONSTRUCTION VALUE:**

**\$645,859**

## 4. City of Yuma 22<sup>nd</sup> Street Pavement and Waterline Improvements

Yuma, AZ



*The project is located on City of Yuma 22nd Street between Avenue A and 4th Avenue within the City of Yuma city limits.*

The City of Yuma hired Nicklaus through an On-Call contract to provide design services for the 22nd Street Improvements project. Services included preparing the geotechnical report, construction plans, bid documents, specifications, and cost estimates.

The project is located between Avenue A and 4th Avenue in the City of Yuma. 22nd Street services the main U.S. Post Office for Yuma County, Sanguinetti Memorial Park, Woodard Jr. High School, commercial businesses, and residential subdivisions in this area. Since heavy use of 22nd Street was expected to continue, it was essential for it to remain a reliable route for motorists and commercial traffic.

This project aimed to improve the water distribution system and roadway surface to meet current and future water and traffic demands. This project consisted of removing and replacing approximately one-half mile of existing AC pavement and ABC and replacing the existing curb, gutter, and sidewalk. In addition, the project included the capping and abandoning of existing 4" and 6" concrete asbestos water mains, the installation of approximately one-half mile of new 8" C900 Class 150 (DR18) water main along with new fire hydrants, water services, signing, pavement markings, and associated appurtenances.

**CLIENT:**

City of Wellton

**CONTACT PERSON:**

Rodney Rinehart, Retired Town  
Manager

(928) 210-6826

[rodneyrinehart@somertonaz.gov](mailto:rodneyrinehart@somertonaz.gov)

**SCOPE ELEMENTS:**

- ✓ Records Research
- ✓ Permit Documentation Prep
- ✓ Field Survey & Topo Survey
- ✓ Plans, Specs & Estimates (PS&E)
- ✓ Plan Plotting
- ✓ Sealed Construction Documents
- ✓ Bid Assistance
- ✓ Attend Pre-Construction Meeting
- ✓ RFI Assistance
- ✓ Periodic Field Reviews
- ✓ Design Schedule & Qual. Control
- ✓ Attend Design Meetings
- ✓ Review & Appr. Addenda & Clarity

**CONTRACT VALUE:**

\$75,191

**CONSTRUCTION VALUE:**

\$696,749

## 5. Town of Wellton On-Call Water Treatment Plant Expansion

Wellton, AZ

Nicklaus has designed numerous infrastructure facilities for the Town, including water treatment plant upgrades. One of these is the expansion of the Town of Wellton Water Treatment Plant.

The expansion included the addition of a 600,000 gallon ground storage tank with all related appurtenances, including foundation design, steel tank, site piping, and connection to the existing water filtration system.

Also included was the addition of a new filtration system for six new filtration tanks with related piping for connection to clarified water, pumping station, and backwash connection. The project included a topographic survey, geotechnical investigation, piping plan, and all related details for the tank and filter system. Nicklaus handled all

permitting with the Arizona Department of Environmental Quality (ADEQ) for the water plant expansion. Nicklaus also assisted the town by putting the project out to bid and selecting the most qualified contractor.

Nicklaus supervised the construction of the water treatment plant expansion for the Town of Wellton, provided construction staking and quality control testing, and updated the facility's masterplan. The project was successfully designed and constructed, demonstrating Nicklaus' ability to design and manage the construction of a municipal water improvement project.



*Nicklaus has been the Town Engineer for the Town of Wellton for over 30 years.*

**CLIENT:**

Imperial County Department  
of Public Works

**CONTACT PERSON:**

Veronica Atondo, PE, Deputy  
Director of Public Works  
(442) 265-1818  
[veronicaatondo@co.imperial.  
ca.us](mailto:veronicaatondo@co.imperial.ca.us)

**SCOPE ELEMENTS:**

- ✓ Preconstruction Meeting
- ✓ Weekly Meetings
- ✓ Schedule Management
- ✓ Cost Control
- ✓ Submittal Management
- ✓ Change Order Management
- ✓ Request for Information Management
- ✓ Quality Control
- ✓ Daily Inspection
- ✓ Observe Construction Materials & Methods
- ✓ Permit & Environmental Compliance
- ✓ Progress Payment Management
- ✓ Monthly Status Report
- ✓ Project Close-out

**CONTRACT VALUE:**

**\$32,219**

**CONSTRUCTION VALUE:**

**\$285,539**

## 6. Hawk Street Improvements

Heber, CA

Nicklaus received a Task Order to provide Resident Engineering and Construction Inspection Services for the Hawk Street Improvements Project under an existing On-Call contract with Imperial County. The General Contractor's (GC) scope of work for the Hawk Street Improvement Project



*Nicklaus discovered the existing roadway section was not as described in the construction documents, leading to project quantity underruns.*

included reconstructing the roadway with 2" of conventional Asphalt Concrete (AC) cap over 1" of AC leveling course, fiberglass/polymer matrix, dig-outs, crack cleaning, and filling, construction signs and paint striping and signage. The length of the road improvements covered approximately 0.29 miles. All work for the project followed the May 2006 Caltrans Standard Specifications, project specifications, and special provisions.

Nicklaus performed pre-construction activities, including coordinating and managing pre-construction meetings with representatives from Imperial County, GC Quality Control Material Testing Consultant, Engineer of Record, and Heber Public Utilities District. Construction services included full-time construction inspection, daily and weekly reporting to Imperial County, and weekly safety and progress meetings with the GC.

Nicklaus discovered that the existing roadway section was not as described in the construction documents, leading to project quantity underruns. Additionally, as dig-out operations began, Nicklaus discovered the existing roadway section was not as described in the construction documents, leading to project quantity underruns. Nicklaus documented measurements with the GC and used the daily reports to help avoid potential conflicts with the Contractor's payment requests.

Nicklaus identified additional areas with failed subgrade, marked the areas for removal while maintaining the overall quantity underruns, and provided pre-final and final walkthrough services with Imperial County and the GC, noting all punch list items. Nicklaus worked with the GC and Imperial County to close the project post-construction, including reviewing and approving the final pay application, retention pay application, As-Builts, closeout documents, and final report.

**CLIENT:**

Town of Winterhaven

**CONTACT PERSON:**

Rick Miller

(928) 920-9056

[rick@sunstatees.com](mailto:rick@sunstatees.com)

**SCOPE ELEMENTS:**

- ✓ Records Research
- ✓ Permit Documentation Prep
- ✓ Field Survey & Topo Survey
- ✓ Plans, Specs & Estimates (PS&E)
- ✓ Plan Plotting
- ✓ Sealed Construction Documents
- ✓ Design Schedule & Qual. Control
- ✓ Attend Design Meetings

**CONTRACT VALUE:**

**\$346,400**

**CONSTRUCTION VALUE:**

**\$1.8M (est.)**

## 7. Winterhaven Sewer Force Main Replacement 4th Avenue Bridge

Winterhaven, CA

Nicklaus provided design and construction services for a corrosion failure to a section of the sewer force main suspended from the Colorado River Crossing Bridge. The pipeline failure resulted in a raw sewage release beneath the bridge onto the City of Yuma pedestrian pathway.

Nicklaus provided emergency design and repair services to expedite service recovery replacing approximately 170 feet of failed ductile iron pipe with high-density polyethylene pipe with all necessary appurtenances. During the design and repair process, it was determined that the corrosion was more extensive than previously suspected. Nicklaus provided timely

design-build assistance to eliminate the immediate concern and offer detailed recommendations for WWD's path forward. As a long-term solution, Nicklaus provided design services for the three sections of force main noted above based on recommendations provided during the initial investigation.

In addition to the design work, Nicklaus coordinated with the Border Environmental Cooperation Commission to develop a United States Department of Agriculture Preliminary Engineering Report for Rural Development of Wastewater Facilities in California to aid WWD and Imperial County in obtaining grant funding for this project. The design consisted of coordination and permitting with the WWD, Imperial County, Bureau of Reclamation, CALTRANS, Arizona Department of Transportation, City of Yuma, and Yuma County. Nicklaus designed the project's next phase, which involved the replacement of 1,325 LF of sewer force main. Our team worked with the Town of Winterhaven to complete this project as a design/build, eliminating 60 days of additional sewage pumping from the failed pipeline, providing a cost savings of approximately \$180,000.



*The force main project consisted of one mile of 8" ductile iron pipe connecting the Winterhaven Water District (WWD) Sewer Lift Station to the City of Yuma Sewer System and included three bridge crossings; the California Waste Way Bridge, the I-8 Over-Crossing Bridge, and the Colorado River Bridge.*

**CLIENT:**

City of El Centro  
Police Department / Arrington  
Watkins Architects, Inc. (Architect)

**CONTACT PERSON:**

Abraham Campos, PE  
City Engineer/Public Works  
Director  
(760) 337-5182

**SCOPE ELEMENTS:**

- ✓ Records Research
- ✓ Permit Documentation Prep
- ✓ Field Survey & Topo Survey
- ✓ Plans, Specs & Estimates (PS&E)
- ✓ Plan Plotting
- ✓ Sealed Construction Documents
- ✓ Bid Assistance
- RFI Assistance

**CONTRACT VALUE:**

**\$232,825**

**CONSTRUCTION VALUE:**

**\$39M**

**YEAR COMPLETED:**

**2022**

## 8. City of El Centro Police Station

El Centro, CA

Nicklaus was part of a design team to provide engineering services for a new Police Station for the City of El Centro. The project was constructed in two phases and occupies the full city block where the previous station was located. The



phasing plan was developed to enable the police department to remain in portions of the building until the new police headquarters were completed. Phase I included a two-story main police station, a new garage, and the realignment and narrowing of 11th Street to provide one-way traffic. Phase II entailed the construction of a two-story police support building.

The station includes a public lobby, a community meeting/multipurpose training room, the 911 emergency communications center, suspect processing, administration offices, records storage and a fitness room. The Police Support Building houses the fingerprint laboratory, evidence storage, K-9 facilities, and other police support areas.

Nicklaus provided pre-development coordination services, which included coordination with architect, project manager, review of existing documentation, and attendance to pre-development and partnering meetings with design team, building owner, and City officials. As part of the topographic survey, Nicklaus researched existing survey records and conducted a UAV flight to collect topography data on the site to generate contours and spot elevations. Nicklaus prepared the civil design plans for the project. Plans included site demolition, site plan, paving and grading, utility connection and relocation, stormwater managements, erosion and pollution control, and offsite improvements. Particularly challenging was meeting stormwater onsite retention requirements. The size of the parcel as well as the Police Department requirements for the site impeded installing a basin and transporting runoff to the municipal storm water collection system was not feasible. Nicklaus implemented an innovative method for stormwater retention consisting of the installation of Stormtech SC-310 chamber system.

Nicklaus provided construction administration services, including attending pre-bid meetings, responding to Requests for Information during bidding, attending pre-construction meetings, responding to RFIs during construction, review submittals, and review as-built drawings prepared by the general contractor.

**CLIENT:**

Imperial County Department  
of Public Works

**CONTACT PERSON:**

John A. Gay, PE, Director  
of Public Works  
(442) 265-1818  
[johngay@co.imperial.ca.us](mailto:johngay@co.imperial.ca.us)

**SCOPE ELEMENTS:**

- ✓ Constructability Review
- ✓ Preconstruction Meeting
- ✓ Weekly Meetings
- ✓ Schedule Management
- ✓ Cost Control
- ✓ Submittal Management
- ✓ Change Order Management
- ✓ Request for Information Management
- ✓ Quality Control
- ✓ Daily Inspection
- ✓ Observe Construction Materials & Methods
- ✓ Permit & Environmental Compliance
- ✓ Progress Payment Management
- ✓ Monthly Status Report
- ✓ Project Close-out

**CONTRACT VALUE:**

**\$446,477**

**CONSTRUCTION VALUE:**

**\$7,986,162**

## 9. Clean Closure of Cruickshank Road Illegal Disposal Site; County Project No. 5680SW

El Centro, CA, and Imperial County, CA

The site was previously impacted with waste, generally composed of broken glass, tile, bricks, concrete, tires, and metallic waste.

Nicklaus was contracted to provide Resident Engineer and **Construction Inspection Services** for the site remediation. Services included the following:



*The Cruickshank Road Illegal Disposal Site (CRIDS) is a former illegal disposal area consisting of approximately 9 acres owned by Imperial County and 34 acres owned by the City of El Centro.*

- Client consultation and facilitation of the pre-construction meeting
- Continuous on-site inspection during construction
- Facilitation of weekly contractor meetings
- Review and approval of payment applications
- Review and logging of change orders, submittals, RFIs, and material testing data
- Labor Compliance
- Coordination of the pre-final and final inspections
- Completion of a project summary report with closeout documents.

Nicklaus played a significant role in pre-construction activities, including reviewing and commenting on the Contractor's submitted Work Plan. During the review, it was apparent to Nicklaus that the Contractor's interpretation of the Contract Documents varied from the designer's intent. Our experts in regulatory compliance and environmental remediation helped untangle the differences and guide both the Contractor and Stakeholders to a tangible agreement that is in keeping with the intention of the contract and acceptable to the regulatory agencies.

Nicklaus consulted with the Imperial County Department of Public Works (ICDPW) during their negotiations with the Contractor and, through the Change Order process, assisted the ICDPW in developing a testing program agreeable to the City of El Centro, Imperial County, Local Enforcement Agency (LEA), and the Designer of Record. In addition, Nicklaus worked closely with the LEA to ensure they were on board with the proposed contractor plan and that strict adherence to Imperial County Air Pollution Control District rules was met.



**CLIENT:**

Quechan Housing Authority

**CONTACT PERSON:**

Hector Bermudez, Development  
Coordinator

(928) 580-0843

[hbermudez@quechanhousing.org](mailto:hbermudez@quechanhousing.org)

**SCOPE ELEMENTS:**

- ✓ Constructability Review
- ✓ Preconstruction Meeting
- ✓ Weekly Meetings
- ✓ Schedule Management
- ✓ Cost Control
- ✓ Submittal Management
- ✓ Change Order Management
- ✓ Request for Information Management
- ✓ Quality Control
- ✓ Observe Construction Materials & Methods
- ✓ Permit & Environmental Compliance
- ✓ Progress Payment Management
- ✓ Monthly Status Report
- ✓ Project Close-out

**CONTRACT VALUE:**

\$98,355

**CONSTRUCTION VALUE:**

\$975,378

## 10. Quechan Housing Authority Community Building

El Centro, CA

The Quechan Housing Authority (QHA) pursued the enhancement of the Tribal housing community with the construction of a new Community Building in Winterhaven, CA.

Nicklaus was selected as the A/E firm to complete construction documents and specifications, assist QHA during the bidding process, and provide management and construction administration services during construction. The project consists of a 3,200 sf building with a lobby, office/ administrative area, restrooms, classroom, a small kitchen, and a large community room. The building concept ties strongly

with the project site, situated on a north/south axis which acknowledges the Quechan's strong connection to the Colorado River to the south and a significant landmark to the Tribe's cultural history to the north. The design embraces the initiatives of QHA by creating an intersection of culture, history and tradition with progress, learning and future generations. The Community Room creates an inviting gathering place for residents with a covered patio designed to allow for year-round use by close consideration of solar studies. The new facility and outdoor gathering spaces will be utilized for local community events, activity gatherings and festivities, thus becoming a great enhancement and destination point for the community. Nicklaus oriented the building to also allow for means of passively managing heat gain, utilizing double stud walls, and overhang depths to mitigate direct sunlight on glazing. Traditional Quechan construction methods are emulated with an exaggerated statement stone wall at the entry and sophisticated lighting details in the lobby corridor provide a blank canvas to display items of historic and cultural value. Modern touches were added to the building with the copper tone metal paneling accents. The Community Room creates an inviting gathering place for residents with a covered patio designed with careful consideration of solar studies to allow for year-round use.



The Quechan Housing Authority (QHA) constructed a new Community Building in Winterhaven, CA funded primarily by Low Income Housing Tax Credits

**CLIENT:**

Imperial Irrigation District  
Water Department  
Engineering Services

**CONTACT PERSON:**

Jose Sandoval,  
Department Analyst  
(760) 339-9299  
[jasandoval@iid.com](mailto:jasandoval@iid.com)

**SCOPE ELEMENTS:**

- ✓ Records Research
- ✓ Attend Pre-Construction Meeting
- ✓ RFI Assistance

**CONTRACT VALUE:**

**Varies by Task Order  
(\$300k Max)**

**CONSTRUCTION VALUE:**

**N/A**

## 11. As-Needed Geotechnical Engineering IID Facilities, Canals, & Drains

Imperial County, CA

The IID contract includes general geotechnical services and projects requiring fast-track support to satisfy scheduling constraints and emergent needs for the benefit of their customers.

Nicklaus is in the second On-Call Contract and has been awarded over 20 work orders over the years. Several completed geotechnical support work orders include:



*The Imperial Irrigation District (IID) contracted Nicklaus to provide as-needed geotechnical engineering and technical expertise for a variety of potential facility, canal and drain projects within their service area.*

**Dahlia Drainpipe:**

The project scope included the removal of an existing pipe and the installation of approximately 540 feet of 42-inch diameter pipe at the south end and 134 feet of 36-inch diameter pipe at the north end of the plant site. Nicklaus's scope of work included monitoring earthwork, material and compaction testing during construction, and reporting for quality control of the new pipe installation.

**Pear Ninth Street Ditch Canal:**

The project included pipelining the existing unlined Pear Ninth Street Ditch Canal for an approximate length of 328 feet to accommodate for the widening improvement of Ninth Street planned by the City of Holtville. Nicklaus was tasked with providing geotechnical engineering and construction materials testing services during the design and construction phases.

**Dahlia Canal Pipeline:**

The project replaced approximately 248 feet of existing unreinforced concrete pipe with 72" rubber gasket-reinforced concrete pipe (RGRCP). Nicklaus's scope of work included earthwork, material and compaction testing for pipe replacement, sampling and analysis of the proposed source of import fill materials, and providing recommendations regarding the suitability of the material for RCP pipeline backfill import based on approved construction documents.

## ANALYSIS OF EFFORT/METHODOLOGY

...the ...  
...and ...  
...the ...  
...the ...

...the ...  
...the ...  
...the ...  
...the ...

...the ...  
...the ...  
...the ...  
...the ...

...the ...  
...the ...  
...the ...  
...the ...

...the ...  
...the ...  
...the ...  
...the ...

## Proposed Method to Perform Work to Address Scope of Work

Nicklaus has the proven internal processes to initiate, conduct, and finalize task orders in a cost-effective, high-quality manner to achieve the City of Imperial's requirements and expectations.

The City of Imperial continues to implement its improvement programs to support existing and future infrastructure. It needs a local, technically diverse, and proven team with a flexible, deep bench of resources that can quickly mobilize and deliver multiple, simultaneous task orders without delay. With Nicklaus' partnering history with their selected team members and successful delivery of both single-procurement and on-call services – coupled with the in-depth experience of our Project Manager and team leaders – we are confident in our ability to promptly initiate and successfully complete any task order request from the City of Imperial.

To facilitate this, we will employ a proven delivery approach developed for on-call services focusing on a comprehensive task order development process, continuous communication, and reliable implementation. The Nicklaus Program Manager, Antonio Alvarez, P.E., will lead our team and be the primary contact with the City of Imperial. Based on the tasks requested by the City of Imperial, Nicklaus will engage the best team within the Nicklaus partnership to provide the most qualified team members for each service area.

### Nicklaus Will Quickly Mobilize and Deliver upon Request without Delay

### Road, Traffic, and Mapping Experts Able to Solve Critical Challenges

To support your needs and meet these challenges over the life of this contract, Nicklaus will provide an integrated project team of subject matter experts specifically tailored to the assignment and situation.

Our team brings the expertise and experience to provide on-call project management, planning, design, construction management, and emergency response services for your projects. In addition, Nicklaus' management team is focused on providing outstanding professional services to the City of Imperial. As a result, we can provide a fully integrated project team to address your project needs for this RFP.

#### a) **Soil and Geotechnical Engineering Services**

Our team performs field services, seismic fault investigations, dewatering development, foundation engineering, and ground-penetrating surveys. In addition to our services, Nicklaus is unique in that we have the in-house capability to provide geotechnical laboratory testing and drilling services.

#### b) **Roadway and Traffic Engineering Services**

Our team is experienced in performing staged traffic handling plans, signal designs, and Americans with Disabilities Act compliance design services.

Our team also has specialized expertise in performing design services for roadways, including developing rigid and flexible pavement systems and unpaved roads and evaluating and calculating Pavement Condition Indices using Paver 7.

In addition, we have cost estimators on staff, experts in developing cost factors rooted in relevant historical data and inclusive of each road system component, whether the project includes localized stopgap, localized preventative, or global preventative repairs.

#### c) **Surveying Services and Right-Of-Way Engineering**

As required, key sub-consultants will be used to augment the Nicklaus in-house specialized services.

#### d) **Civil Engineering Services**

Our team performs in-house civil engineering services,

# ANALYSIS OF EFFORT/METHODOLOGY

including site development, hydrology analyses/drainage design, roadway engineering, and general civil engineering needs. In addition to our civil engineering services, our team provides planning studies, economic analyses, and supporting business case/life cycle analyses. Bidding, construction support, and project closeout services are included in all engineering efforts as may be required to fulfill the entire project life span from planning to construction.

## e) Agency Permitting Services

Our team has in-house capabilities to gather the documentation required for encroachment, environmental, or other agency permits.

## Successfully Managing a Task Order-Based Contract

As-needed services contracts, by design, are intended to provide the City of Imperial with a readily available contracting vehicle to address specific tasks, studies, and projects and bypass the rigorous/time-consuming RFP process. Nicklaus fully understands the flexibility required to fulfill the needs of the City of Imperial.

*Figure 1 illustrates our typical four-step approach to Task Order development, execution, & management: Define, Communicate, Incorporate, and Deliver.*

### Step 1 – Define

#### **A Task Order review ensures a thorough understanding of the needs of the project and the goals of the City of Imperial** ▼

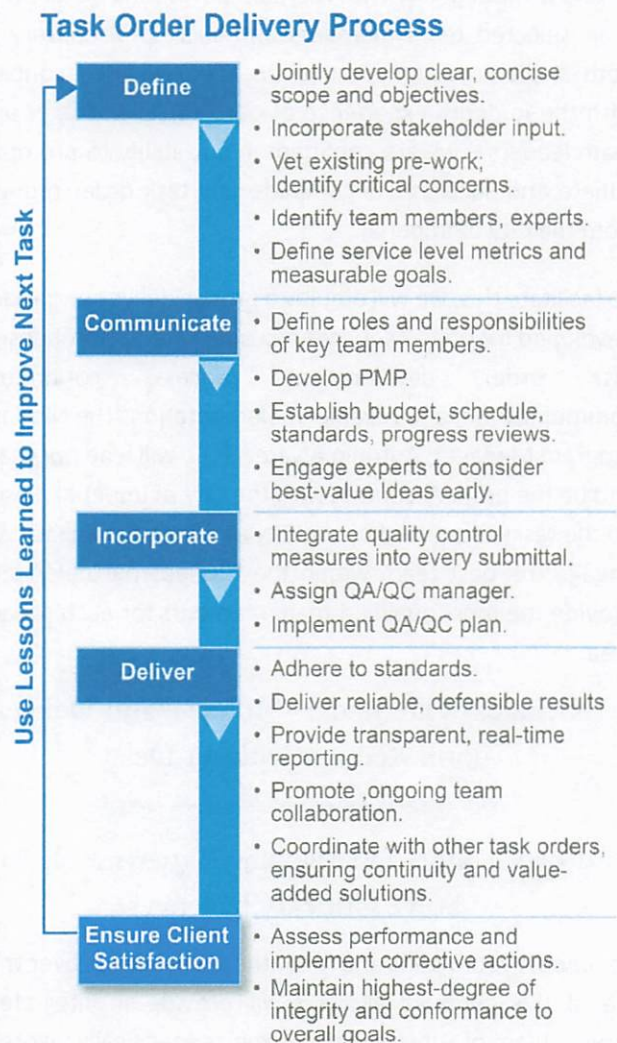
Upon notification of a pending Task Order assignment, our Nicklaus project manager will work jointly with the City of Imperial and our internal experts to develop a project team that meets the specific tasks' unique needs.

Nicklaus intends to start the City of Imperial /Consultant partnership early in the Task Order development process by working with the City of Imperial representatives to fully define the goals and timeline required for a project and task assignment.

Nicklaus will establish the internal work team, identify additional stakeholders, and work with the City of Imperial staff and the pertinent team members to further refine the scope of services and work schedule and develop the appropriate level of effort.

Once the Task Order scope of services is established, the Nicklaus team will develop the Work Breakdown Structure, which defines the specific elements of work, and prepare a draft Project Management Plan (PMP), which begins our project communication process.

*Figure 1: Nicklaus will use a standard task order delivery process to ensure consistent task order definition, communication, and delivery standards.*



# ANALYSIS OF EFFORT/METHODOLOGY

## Step 2 – Communicate

**Established lines of communication provide easy decision-making and seamless task order execution ▼**

The PMP is a key document in the project communication process. It provides the project team with specific and measurable goals, assignments, and expectations. The PMP is also considered a "living document" and will be adjusted, revised, and distributed to the entire project team as new issues and solutions are identified during the execution phase of the project and/or task assignment. Key elements of the PMP include:

- ✓ Team roles and responsibilities
- ✓ Critical technical needs and expertise
- ✓ Draft scope and schedule
- ✓ Work breakdown structure (WBS)
- ✓ Lines of communication
- ✓ Adherence to standards and procedures
- ✓ Quality assurance/quality control process
- ✓ Risk identification and documentation
- ✓ Subconsultant involvement and management

Nicklaus will finalize the overall scope of services and budget required to accomplish the assigned project and/or tasks based on the information presented in the PMP. Communication is key to collaborating and identifying creative, innovative ideas that may result in cost savings, energy efficiencies, and sustainable features and maintain the project's overall schedule and budget.

Therefore, as part of the PMP, a communication plan will be implemented to ensure all team members, including the City of Imperial staff, are aware of the project's progression.

Nicklaus will implement the collaboration process through regularly scheduled project meetings with all project stakeholders and, as necessary, inclusive of outside project stakeholders such as franchise utility owners, resource agencies, regulatory entities, and various community groups.

**Our project meetings are organized and ready to address and resolve project issues early.**

**In-house schedule and management software facilitates project reporting ▼**

Our team has fully developed scheduling and management reporting tools and has previously used them on single procurement and multiple task order contracts. Nicklaus will manage and monitor the following essential but crucial phases: project setup, analysis, tracking, and reporting. Project managers have the ability to report project costs, task implementation, and schedule progression weekly.

This benefits the City of Imperial and Nicklaus by providing real-time project budgets and schedule assessments. This process is also used to identify potential project issues requiring specific attention. Nicklaus will tailor a project reporting structure that best suits the project's needs and the City of Imperial requirements.

## Step 3 – Incorporate

**Establishing service level metrics early results in smooth execution and delivery ▼**

**Initiating Quality.** Quality begins with Nicklaus and all sub-consultants thoroughly understanding project goals and objectives, emphasizing communication, and thoroughly reviewing project inputs. Nicklaus will develop a project-specific checklist and THE City of Imperial guidelines concurrent with developing the scope of work. The submittal checklist will be distributed to Nicklaus' sub-consultants before project scoping and fee negotiations to ensure that everyone clearly understands what is required at each delivery point in the project.

**Producing Quality.** Nicklaus will require a PMP on all tasks. The project-specific Quality Management Plan (QMP) will provide the foundation and guidance for the critical technical activities undertaken as part of the PMP.

**Confirming Quality.** While building quality into the work is essential, formal checking and reviews are also critical QMS

# ANALYSIS OF EFFORT/METHODOLOGY

activities. Therefore, quality-checking activities, which are documented with the previously developed checklists requiring two-level approvals, will be customary and a part of each submittal's permanent records.

**Delivering Quality.** All deliverables undergo a final verification check before submission. An independent reviewer evaluates the deliverable for completeness and consistency, adherence to quality requirements, and resolution of comments. The reviewer then signs a Deliverable Release form and transmits it to our project manager, who is responsible for the final overlook, approval, and submittal. This final independent evaluation assesses the submittal's state of readiness without diminishing the project manager's accountability for the quality of work being released. This review pairing is a check-and-balance activity that helps Nicklaus consistently deliver quality and value to our clients.

## Step 4 – Deliver Value

**Nicklaus will utilize all the City of Imperial planning/design standards, processes, and procedures to ensure continuity and consistency ▼**

Milestone reviews, quality control measures, strategy meetings, and goal setting allow our team to properly plan and design projects on time and within budget. By working closely with the City of Imperial staff, each project/task order team will maintain open lines of communication and continual collaboration to avoid any potential delays or surprises. The anatomy of every project includes various key elements, as presented below.

**Project/Task Management.** Nicklaus' Project Manager will drive the overall project and tasks, ensuring our task order teams manage to completion and the expectations of the City of Imperial. For unforeseen circumstances, our project/task team will work with the City of Imperial to readjust or revise to best fit The City of Imperial needs. Project/task management is more than just making informed decisions on project solutions; it is about making decisions that consistently improve the operation or implementation in the field. Nicklaus

integrates planning, design, and construction expertise to continuously value engineer designs that can be built within budget and on schedule.

**Cost Estimating.** Cost estimates must be realistic so The City of Imperial can accurately forecast total project costs. Therefore, our team will utilize our in-house construction groups, composed of seasoned cost estimators with extensive experience developing construction cost estimates for contractors. Using our team's in-house database, which includes local projects, we create highly competitive estimates from real-world experience with risk-adjusted nominal estimate methodology.

**Transition/Knowledge Transfer.** When we complete a task order and deliver the project to the City of Imperial staff, our involvement does not end. We value our partnership with the City of Imperial and are committed to working with the City of Imperial to create knowledge transfer and mentoring opportunities for your staff.

**Emergency Requests.** Our team's depth of resources is invaluable when our clients need emergency assistance. We have the depth of resources in San Diego and throughout Southern California that can quickly mobilize seven days a week for emergency requests requiring an immediate response.

## Resident Engineering & Construction Inspection

Nicklaus is a full-service company that provides both engineering and construction services; thus, Nicklaus employs both professional engineers and technical personnel with construction experience. Nicklaus plans on approaching a typical construction management project with two separate personnel: a California-licensed Civil Engineer who will act as the Resident Engineer and an experienced field personnel who will serve as the On-Site Construction Inspector. Nicklaus will start with pre-construction activities. The Resident Engineer and On-Site Inspector will review and familiarize themselves with the plans, specifications, and Quality Assurance Program (QAP), meeting internally with the team to discuss the project in general. Next, Nicklaus will request a meeting with the City

## ANALYSIS OF EFFORT/METHODOLOGY

of Imperial representatives to discuss the required submittal documents and the overall project schedule. Nicklaus will also discuss the pre-construction meeting and formulate an agenda for the conference. It is anticipated that Nicklaus will conduct the pre-construction meeting with a reviewed and approved meeting agenda. Finally, Nicklaus will prepare the pre-construction meeting minutes for record.

The On-Site Construction Inspector will concurrently begin full-time inspection services as construction begins. The On-site Construction Inspector will draft daily inspection reports and take a daily photo catalog of construction activities. As mentioned above, the reports and photographs will be communicated to the Resident Engineer, the General Contractor, and the City of Imperial. In addition, the On-Site Inspector will begin coordination of all material testing required for the project as outlined in the QAP. Test results will be part of the daily submittals for contract compliance to be reviewed by the Resident Engineer. The On-Site Inspector will also ensure the Contractor promotes job site safety, noting as-built conditions and ensuring labor interviews are conducted. Concurrently, the Resident Engineer will supervise the construction administration through daily communication with the On-Site Inspector and weekly progress meetings with the Contractor and the City of Imperial.

The Resident Engineer will receive and review the Contractor's payment applications, change orders, RFIs, submittals, materials testing results, and certified payroll. The Resident Engineer and On-Site Construction Inspector will participate in the pre-final walk-through, developing a punch list, distributed to the Contractor and the City of Imperial. Additionally, the On-Site Inspector will monitor the completion of the pre-final punch list items and coordinate the final inspection with the Resident Engineer, the City of Imperial, and Contractor. After construction is complete, Nicklaus will coordinate As-Built Plans with the City of Imperial and conduct the project closeout. The project closeout typically includes both a project summary report, submitted in two (2) sets in both hard copies (three-ring binders) and digital format (PDF) on one USB thumb drive as a portable document. It is Nicklaus's goal

to provide the City of Imperial with comprehensive construction management services for all projects using the above-stated approach.

Over the decades, you learn a lot of essential lessons dealing with a variety of issues. Below are a few critical lessons we have learned:

- Maintain a single point of contact;
- Come to the project prepared;
- Keep everyone on task and within scope;
- Weekly progress meetings are essential;
- Always have safety at the forefront;
- Maintain detailed Daily Reports (critical in cases with claims or DIR reporting issues);
- Properly manage RFIs, submittals, and change orders (vital to the project schedule);
- Properly identify labor codes and equipment;
- Pictures, pictures, and more pictures;
- Work with GC to identify scheduling issues early;
- Proper coordination with the Materials Testing Lab;
- ***Communication!***

### TIMELINE

For design projects, Nicklaus will prepare a Gantt Chart schedule outlining each task and the duration of task for review and approval by the City of Imperial. The schedule for potential task orders will vary depending on the scope of work. Typical design schedules will include predesign, design, and post-design phases, varying in length. Services may include, but are not limited to, design reports, geotechnical investigations, surveys, schematic designs, design development, construction documentation, bidding assistance, and construction support. Each service duration will depend on project-specific constraints and the City of Imperial's needs. For Resident Engineering and Construction Inspection services, Nicklaus will work within the predetermined construction duration allotted to the General Contractor. Typical services will also include two weeks of familiarizing ourselves with project plans and specifications before our pre-construction meeting. **In addition, Nicklaus will prepare and conduct weekly progress meetings throughout this project, and a project summary report will be delivered to the City three weeks after the project's completion, depending on the size of the project.**



# EXHIBIT A

## PROPOSAL ACKNOWLEDGEMENT FORM

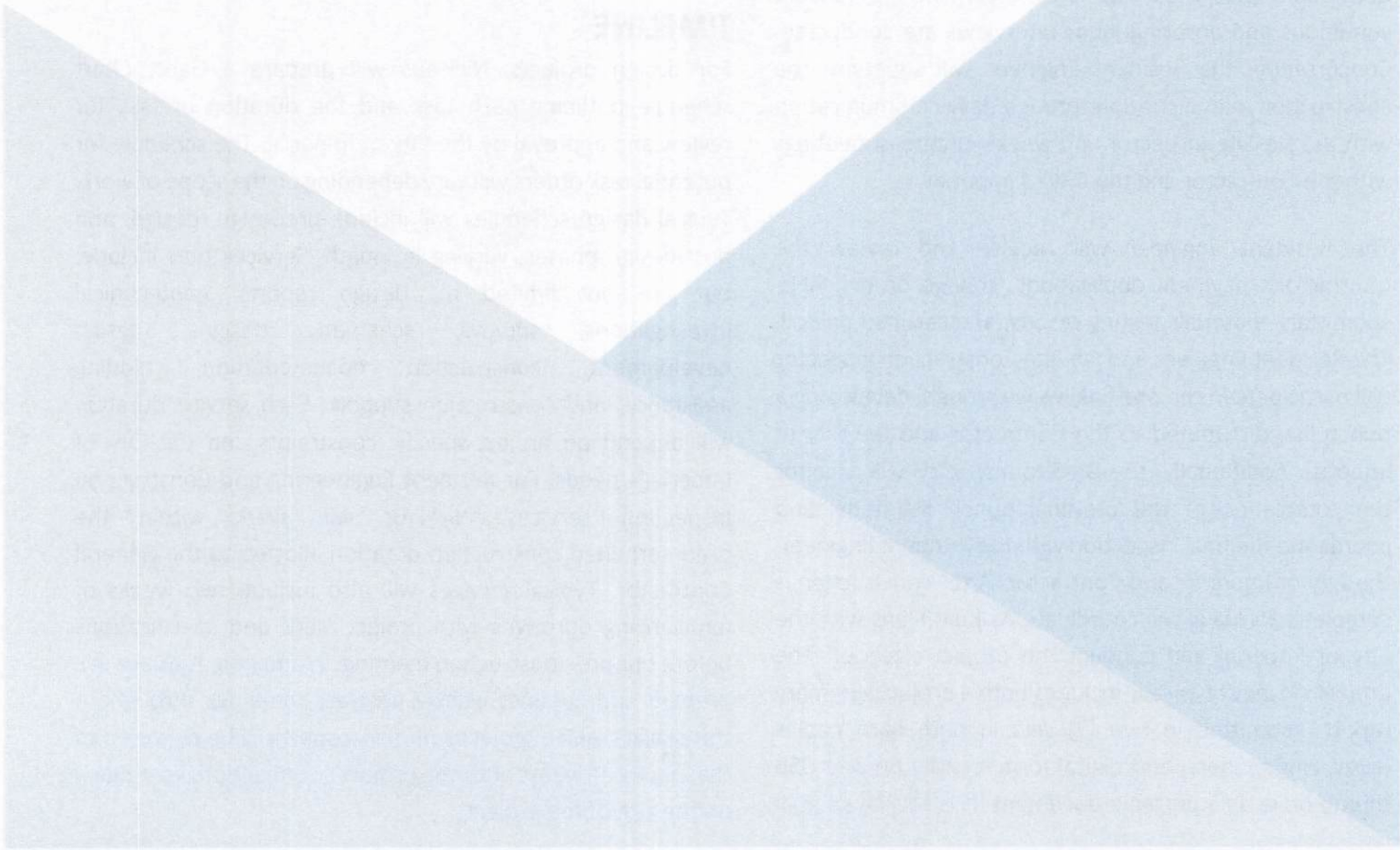




EXHIBIT A

PROPOSAL ACKNOWLEDGEMENT FORM

The Proposer hereby acknowledges receipt of addenda number(s) 1, if any.

By signing below, the Proposer agrees to all terms and conditions in this RFP, except where expressly described in the Proposer's Services Proposal.

[Signature]  
Original Signature by Authorized Officer/Agent

27-1395529  
Vendor's Tax ID Number (FEIN)

Antonio Alvarez, PE  
Type/Print Name of Signatory

Nicklaus Engineering, Inc.  
Company Name

Vice President  
Title

(928) 344-8374  
Phone Number

1461 Main Street, El Centro, CA 92243  
Consultant Mailing Address

(928) 726-6994  
Fax Number

www.neiaw.com  
Website Address

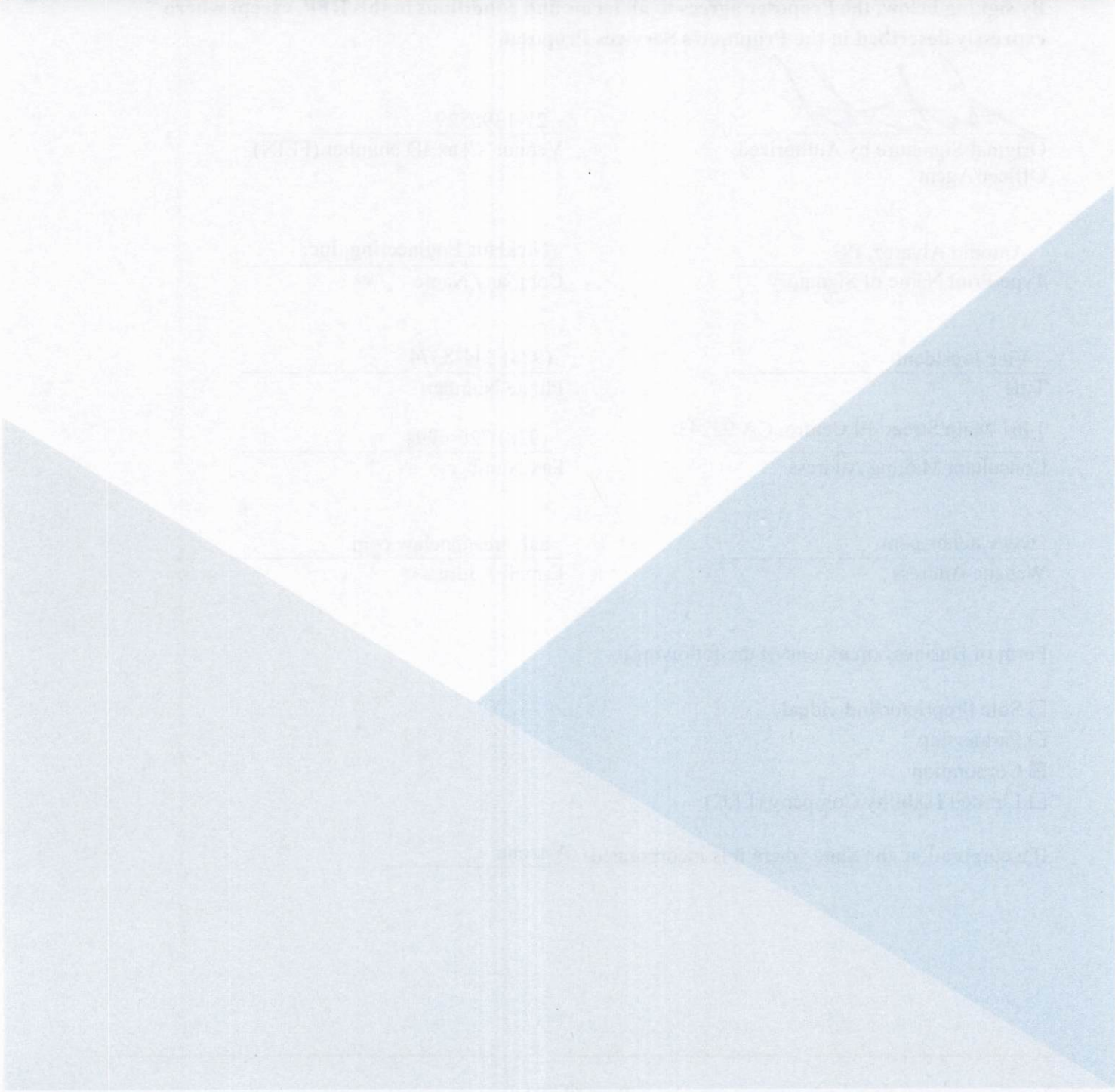
aalvarez@neiaw.com  
E-mail Address

Form of Business (mark one of the following):

- Sole Proprietor/Individual
- Partnership
- Corporation
- Limited Liability Company (LLC)

If a corporation, the State where it is incorporated: Arizona

**EXHIBIT C**  
**INSURANCE REQUIREMENTS**  
*Certificate of Insurance*





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/20/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER A.T.P. and Associates, LLC 350 W 16th Street Ste 103 Yuma AZ 85364	CONTACT NAME: Heather Pool	
	PHONE (A/C, No, Ext): 928-783-0000	FAX (A/C, No): 928-783-3731
E-MAIL ADDRESS: hpool@pancrazi.com		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A : Charter Oak Fire Insurance Co.		25615
INSURER B : Travelers Property Casualty		25674
INSURER C : U.S. Specialty Ins. Co. (HCC)		29599
INSURER D : Benchmark Insurance Company		41394
INSURER E : Hartford Casualty Insurance Company		14397
INSURER F :		

COVERAGES CERTIFICATE NUMBER: 731774117 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:	Y	Y	P6606P538607TCT24	3/18/2024	3/18/2025	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPI/OP AGG \$ 2,000,000 \$
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	Y	Y	BA6P5339372443G	3/18/2024	3/18/2025	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ n			CUP9R4035422443	3/18/2024	3/18/2025	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
D E	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y/N <input checked="" type="checkbox"/> Y N/A		Y	WCB238439-03 59WECAV9ZWZ	9/15/2023 3/18/2024	9/15/2024 3/18/2025	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C B	Professional Liability & Pollution Liability Equipment Floater			USS2434581 P6606P538607TCT24	3/18/2024 3/18/2024	3/18/2025 3/18/2025	Claim/ Aggregate Claim/Aggregate Leased/Rented 5000000/5000000 5000000/5000000 100,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Additional Insured per forms CGD4140408 and CAT3530817 attached. This Insurance shall be Primary and Non-Contributory. Waiver of Subrogation applies per forms CGD3790219, CAT3530817 and WC000313 attached

\*\*Umbrella Follows form of the General Liability, Auto Liability and Workers Compensation Policies\*\*XCU is Not Excluded\*\*

## CERTIFICATE HOLDER

## CANCELLATION

\*\*\*\*\* SAMPLE \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

*Angela Aforuzj*

© 1988-2015 ACORD CORPORATION. All rights reserved.

# FEE SCHEDULE

*Hourly/Standard Rates*

Category	Hourly Rate	Standard Rate
Professional Services	\$150.00	\$100.00
Administrative Support	\$75.00	\$50.00
Legal Research	\$120.00	\$80.00
Document Review	\$100.00	\$60.00
Consulting	\$180.00	\$120.00
Travel Expenses	Actual	Actual
Telephone Calls	\$50.00	\$30.00
Printing & Copying	\$30.00	\$20.00
Postage	\$20.00	\$15.00
Travel Agency Fees	Actual	Actual
Out-of-Pocket Expenses	Actual	Actual
Travel Insurance	Actual	Actual
Meals & Entertainment	Actual	Actual
Transportation	Actual	Actual
Accommodation	Actual	Actual
Travel Agency Commission	Actual	Actual
Travel Agency Service Fee	Actual	Actual
Travel Agency Booking Fee	Actual	Actual
Travel Agency Insurance Fee	Actual	Actual
Travel Agency Security Fee	Actual	Actual
Travel Agency Other Fees	Actual	Actual

<b>Standard Rate Schedule - 2024</b>		
<b>SCHEDULE B</b>		
<b>DIVISION</b>	<b>LABOR CODE</b>	<b>RATE/HOUR</b>
<b>Administration</b>	Administrative Assistant - IV	\$57.00
	Project Administrator - V	\$82.00
	Marketing Coordinator - V	\$71.00
	Contracts Manager - VI	\$176.00
<b>Architecture</b>	Architectural Technician - II	\$55.00
	Architectural Technician - III	\$65.00
	Senior Architectural Designer - V	\$118.00
	Principal Architect - VI	\$163.00
<b>Engineering</b>	Engineering Technician - II	\$79.00
	Engineering Technician - III	\$82.00
	Engineering Technician - V	\$110.00
	Engineering Designer - IV	\$104.00
	Senior Engineering Designer - V	\$116.00
	Project Engineer - IV	\$128.00
	Senior Engineer - V	\$170.00
	Principal Engineer - VI	\$211.00
<b>Environmental</b>	Environmental Technician - IV	\$79.00
	Environmental Professional - II	\$89.00
	Environmental Professional - III	\$99.00
	Environmental Professional - IV	\$121.00
	Environmental Professional - V	\$126.00
	Project Geologist - IV	\$118.00
	Senior Geologist - V	\$148.00
	Principal Geologist -VI	\$188.00
	Staff Scientist - II	\$79.00
	Staff Scientist - III	\$97.00
	Senior Scientist - V	\$144.00
	Principal Scientist - VI	\$188.00
<b>Construction</b>	Senior Site Superintendent - V	\$99.00
	Senior Estimator - V	\$133.00
	Site Safety & Health Officer - V	\$130.00
<b>Geotechnical</b>	Staff Technician - I	\$52.00
	Staff Technician - II	\$56.00
	Senior Technician - V	\$72.00
	Lab Manager - VI	\$127.00

\* Add \$35.00 per hour per person for applicable Prevailing Wage.



**DESERT  
SURVEYING &  
ENGINEERING**  
DESERTSURVEYING.COM

## **DESERT SURVEYING & ENGINEERING - RATE SHEET AS OF JANUARY 2024**

### **OFFICE SURVEYING SERVICES**

### **CALIFORNIA**

CALIFORNIA PRINCIPAL LAND SURVEYOR	\$175.00/HR
SURVEY MANAGER	\$150.00/HR
ASSOCIATE LAND SURVEYOR	\$110.00/HR
CALIFORNIA PRINCIPAL LAND SURVEYOR (Plan Check Fee)	\$205.00/HR

### **FIELD SURVEY SERVICES**

#### **SURVEY CREW NON-PREVAILING WAGE RATES**

(1) MAN SURVEY CREW	\$160.00/HR
(2) MAN SURVEY CREW	\$185.00/HR
(3) MAN SURVEY CREW	\$260.00/HR

#### **SURVEY CREW PREVAILING WAGE RATES**

(1) MAN SURVEY CREW	\$260.00/HR
(2) MAN SURVEY CREW	\$325.00/HR
(3) MAN SURVEY CREW	\$405.00/HR

### **ENGINEERING & PLANNING SERVICES**

### **CALIFORNIA**

PRINCIPAL CIVIL ENGINEER	\$175.00/HR
SENIOR PLANNING MANAGER	\$175.00/HR
ENGINEERING & PLANNING ASSISTANTS	\$95.00/HR
CLERICAL / MESSENGER / DELIVERY	\$60.00/HR

### **MISCELLANEOUS**

MATERIALS, PRINTS AND SHIPPING	COST + 20%
MYLARS	\$25.00 EA
PUBLIC AGENCY FEES (IF PAID BY DSE)	FEE + 20%
MILEAGE (FROM YUMA TO AREA OUTSIDE IMP/YUMA COUNTIES)	\$0.75 / Mile    \$0.75 / Mile
HOTEL/AIRFARE/CARS/MEALS (AS PROJECT REQUIRES ONLY)	COST + 20%    COST + 20%

- **FINANCE CHARGE:** A finance charge will be computed at a PERIODIC RATE of 1% per month, which is an ANNUAL PERCENTAGE RATE OF 12%, and at DSE's discretion may be applied to any unpaid balance 30 days past due.
- **BILLING:** All charges for services are billed in bi-weekly invoices and are due upon receipt. Applicable finance charges will be assessed on the invoice to any unpaid balance as noted above. Un-paid invoices past 90 days may result in work stoppage.

# CITY OF IMPERIAL

Public Services Department

July 26, 2024

## REQUEST FOR PROPOSAL FOR - ON-CALL CIVIL ENGINEERING SERVICES. RFP NO. 2024-04



2415 IMPERIAL BUSINESS PARK DR. SUITE B  
IMPERIAL, CA 92251  
PHONE: (760) 545-0162  
FAX: (760) 545-0163

GENERAL CIVIL ENGINEERING,  
CONSTRUCTION MANAGEMENT  
AND INSPECTION SERVICES



July 26, 2024



Attn: Janell Guerrero  
Assistant to the City Manager  
City of Imperial  
420 S. Imperial Ave.  
Imperial, CA 92251

**SUBJECT: PROPOSAL FOR ON CALL CIVIL ENGINEERING SERVICES, RFP NO. 2024-04**

Dynamic Consulting Engineers, Inc. (DCE) appreciates the opportunity to submit this proposal to the City of Imperial for **On Call Civil Engineering Services**. We will provide the City with a team that has extensive experience with and understanding of local, State and Federal policies, procedures and guidelines.

Dynamic Consulting Engineers, Inc. was founded with the **vision** to provide clients with high quality work in a timely manner. It is our **commitment** to go above and beyond and provide our clients with an exceptional level of service. Our project managers, engineers and land surveyors are dedicated to completing projects on time no matter how challenging schedules are. With upmost **integrity**, we believe we have assembled a team of design professionals, land surveyors and construction managers that are not only committed to assisting the City on this important project but share the same intrinsic goals of preserving the public's interests.

Our engineering team is especially well suited to provide professional services as requested on this RFP as we have recent experience working on similar projects and on call contracts for the County of Imperial, City of Calexico, City of El Centro and several local water districts. The DCE team includes **Aztec Engineering and Landmark Consultants** as a sub-consultants. The addition of the subconsultants to our team allows us to provide the City of Imperial with full engineering services including transportation engineering as well as other professional services.

In closing, we are excited about the possibility of serving you and provide the City our expertise with similar projects. This proposal is valid for 90 days from the date of submittal. Thank you for your consideration. If there are any questions or comments, please feel free to contact me at (760) 545-0162.

Sincerely,

A handwritten signature in blue ink, appearing to read "C. Beltran".

Carlos Beltran, P.E., Principal Engineer

Mr. Beltran is authorized to bind Consultant to the terms of the City of Imperial Proposal. Mr. Beltran attests that all information submitted with the proposal is true and correct and is familiar with the work required on this RFP.



## TABLE OF CONTENTS

DYNAMIC CONSULTING ENGINEERS INC. COMPANY INFORMATION.....	3
AZTEC COMPANY INFORMATION.....	5
LANDMARK CONSULTANTS COMPANY INFORMATION.....	6
EXECUTIVE SUMMARY.....	7
PROJECT UNDERSTANDING.....	7
COMPREHENSIVE EXPERIENCE.....	7
COORDINATION AND COMMUNICATION .....	8
QUALITY CONTROL PROCEDURES .....	8
DCE PROFESSIONAL SERVICES .....	9
CIVIL ENGINEERING .....	9
CONSTRUCTION MANAGEMENT AND INSPECTIONS .....	10
LAND SURVEYING .....	11
PLAN CHECKING SERVICES .....	12
LAND DEVELOPMENT .....	12
AERIAL TOPOGRAPHIC SURVEYS BY DRONE AND AERIAL PHOTOGRAPHY.....	13
ANALYSIS OF EFFORT/METHODOLOGY.....	14
AS NEEDED ENGINEERING .....	14
AS NEEDED CONSTRUCTION MANAGEMENT AND INSPECTIONS .....	16
PROJECT PERSONNEL ORGANIZATIONAL CHART AND TEAM QUALIFICATIONS.....	18
RESUMES.....	19
EMPLOYEE COUNT AND STAFF AVAILABILITY.....	27
EXPERIENCE AND TECHNICAL SUPPORT.....	28
REFERENCES .....	33
DCE DISADVANTAGED BUSINESS ENTERPRISE (DBE) CERTIFICATION.....	34
ADDENDUMS ACKNOWLEDGEMENT .....	35
EXHIBIT A PROPOSAL ACKNOWLEDGEMENT FORM.....	36

## DCE COMPANY INFORMATION



Dynamic Consulting Engineers, Inc. (DCE) is a local firm based in the Imperial Valley. DCE has a simple, yet efficient company structure, which stresses client satisfaction, quality project management, and efficient technical excellence.

Dynamic Consulting Engineers, Inc. (DCE) is a California Corporation. DCE office is located at: 2415 Imperial Business Park Drive, Suite B, Imperial California 92251. All work is anticipated to be performed at project sites and at the DCE Imperial office.

Dynamic Consulting Engineers, Inc. is certified by the State Department of Transportation as a **Disadvantaged Business Enterprise** (DBE No. 37931).

Federal Tax ID Number 26-1842803

### Company Owners

Carlos Beltran, P.E. (50%), Principal Engineer, [cbeltran@dceinc.pro](mailto:cbeltran@dceinc.pro) (760) 545-0162

David Beltran, P.L.S. (50%), Lead Surveyor, [dbeltran@dceinc.pro](mailto:dbeltran@dceinc.pro) (760) 545-0162

Note: Carlos Beltran will have contractual responsibilities with the City on this proposal.

Dynamic Consulting Engineers, Inc. carries:

\$2,000,000 General Liability Insurance, \$2,000,000 Professional Liability Insurance (E&O)

\$1,000,000 Automobile Insurance, \$1,000,000 Workers Compensation Insurance

DCE complies with all applicable laws regarding affirmative action and equal opportunity employment and does not discriminate against anyone based on age, color, disability, national origin, race, religion, sex, sexual orientation, handicap and status as a veteran or disabled veteran.

Contact Information: Dynamic Consulting Engineers, Inc.

2415 Imperial Business Park Drive, Suite B

Imperial, California

Phone 760/545-0162

Fax 760/545-0163

**STATEMENT REGARDING LITIGATION HISTORY:**

DCE has no history of any litigation. DCE does not have any recent or pending litigation that would affect or impact our ability to provide professional services to the City of Imperial.

**STATEMENT REGARDING EXISTING POTENTIAL CONFLICT OF INTEREST:**

DCE assures there are no conflicts of interest with the City of Imperial, the existing projects or the existing clients DCE has contracted with. Should DCE have any interest in a private project in any way, DCE will notify the City in writing and not participate on behalf of the City.

**STATEMENT REGARDING TERMS AND CONDITIONS OF THE CITY OF IMPERIAL:**

DCE has contracted with the City in past projects and is willing to accept the terms and conditions of the City of Imperial as stated in previous Agreements of Professional Services.

**EXCEPTIONS AND DEVIATIONS:**

DCE takes no exceptions or deviations from the requirements of this RFP and have no objection to the contract requirements as set forth in Exhibit B of the RFP, "Sample Professional Service Agreement".

**LIST OF SUBCONSULTANTS:**

DCE has teamed up with Aztec Engineering and Landmark Consultants to provide the City of Imperial with a broader level of engineering services. Our team can provide the City with expertise in traffic signal design, environmental services as well as geotechnical engineering.

- **Aztec Engineering:** DCE has teamed up with Aztec Engineering on other projects in the City of El Centro and has successfully completed several projects as a team for the City of El Centro. Aztec Engineering brings strong support to this team as they have extensive experience in traffic engineering and environmental compliance.
- **Landmark Consultants:** DCE has teamed up Landmark Consultants on other projects and have successfully completed numerous projects in Imperial Valley. Landmark Consultants brings strong support in geotechnical engineering. Our team can provide the City of Imperial with geotechnical exploration and report prior to start of any design project and can also provide material testing during construction.

## AZTEC COMPANY INFORMATION

### Contact Person:

Jack Fleming, PE, QSD, QSP  
Project Manager  
480-320-8265  
jfleming@aztec.us



### Company Address to Perform Scope of Services:

30 Executive Park, Suite 120, Irvine, CA 92614

### Role:

Civil Engineering  
SWPPP  
Utility Locating Services  
Environmental Services

### AZTEC's Firm Background and Experience.

AZTEC Engineering Group, Inc. (AZTEC) was established in 1992 and has grown from a two-person Disadvantaged Business Enterprise (DBE) to a full-service environmental and engineering consulting firm with over 200 professional, technical, and administrative personnel located throughout our offices in California, Arizona, and Virginia. Over the past 32 years, we have built an excellent reputation as a quality consulting firm dedicated to meeting clients' needs through strong project management and experienced, dedicated staff. AZTEC is part of the TYPASA Group, an international multidisciplinary consulting firm with over 3,500 employees in 60 offices worldwide. Our successful experience with past on-call contracts will benefit the City and any task order that may be assigned to us because we understand the on-call contract process and can mobilize quickly and efficiently to deliver each task order on time and on budget. In addition, we have been delivering projects in California since 2003 and serve local agencies across Southern California.

We bring broad experience in civil engineering including roadway, bridge, drainage and traffic signals and traffic design, as well as in environmental documentation and compliance, public involvement, surveying, utility locating (potholing and designating) and construction support. Our California history includes delivering engineering projects for the City of El Centro, Imperial County, Orange County Public Works (OCPW), Riverside County Transportation Department (RCTD), the Riverside County Transportation Commission (RCTC), Riverside County Flood Control and Water Conservation District, Caltrans (Districts 7, 8, 11, 12) and numerous other cities and counties across Southern California.

AZTEC has experience with numerous on-call contracts and understands the importance of mobilizing quickly when a task order is received, promptly assessing project challenges and identifying solutions, and providing the requested services on time and with the highest level of quality.

### LICENSE TO DO BUSINESS

AZTEC is properly licensed and has been doing business in California for more than 20 years. We are registered with the California Department of Industrial Relations for engineering (DIR Registration No. 1000023259) and Class A. General Engineering Contractor's License, #826065.

**LANDMARK CONSULTANTS COMPANY INFORMATION**



LandMark Consultants, Inc. is a consulting firm providing geotechnical engineering and construction materials testing services in the Imperial, Riverside, and San Bernardino County areas of Southern California. The firm was incorporated in El Centro in 2003 with staff assembled in association with Southland Geotechnical since in 1987. The staff of Landmark’s El Centro office has been operating together since 1982, and has earned the reputation for high quality, cost effective, and responsive technical and professional service (15 employees). The firm established a branch office in Palm Desert, California in 1989 and now has a combined total staff of 21 employees. Landmark Consultants, Inc. is locally owned by Randy Lyon, President, Jeffrey Lyon, CEO/Principal Engineer, and Pete LaBrucherie P.E., Vice President, and is headquartered in El Centro, California.

The technical experience and commitment of the staff result in innovative, cost-effective geotechnical consulting services for small and large projects with challenging site conditions and issues. The staff works with clients and other involved parties to develop strong working relationships based on integrity, mutual respect, and the shared commitment to designing and constructing noteworthy projects

- |  |   |
|--|---|
| <b>Geotechnical Investigation</b>              | <b>Geothermal Field Ground Movement Studies</b> |
| <b>Foundation Design</b>                       | <b>Litigation Support</b>                       |
| <b>Pavement Design</b>                         | <b>Grading Observation &amp; Testing</b>        |
| <b>Geotechnical Instrumentation</b>            | <b>Compaction Testing</b>                       |
| <b>Exploration Drilling</b>                    | <b>Foundation Inspection</b>                    |
| <b>Soil Stabilization</b>                      | <b>Pile Driving Inspection</b>                  |
| <b>Faulting and Seismicity Studies</b>         | <b>Pile Load Testing</b>                        |
| <b>Landslide Investigation and Remediation</b> | <b>Aggregate Testing</b>                        |
| <b>Liquefaction Analyses</b>                   | <b>Portland Cement Concrete Testing</b>         |
| <b>Slope Stability Analysis</b>                | <b>Asphaltic Concrete Testing</b>               |
| <b>Dewatering Studies</b>                      | <b>Special Inspections (ICC)</b>                |

## EXECUTIVE SUMMARY

Dynamic Consulting Engineers, Inc. (DCE) is pleased to present this proposal and statement of qualifications to the City of Imperial. DCE has a simple, yet efficient company structure, which stresses client satisfaction, quality project management, and efficient technical excellence.

We are pleased to offer our experience in civil engineering in projects that are similar to this RFP. We are excited to have the opportunity to present our proposal because these are the type of projects that are very important to City and the entire Imperial Valley. We understand the driving forces of this proposal and are prepared to undertake the challenge of providing solutions that adhere to the City's intrinsic goals and missions.

## PROJECT UNDERSTANDING

The City of Imperial Department of Public Services is requesting proposals from qualified engineering professionals to provide on-call Civil Engineering, Construction Management and Inspection Services. DCE, Landmark Consultants and Aztec Engineering are well suited to provide the City of Imperial professional services in general civil engineering including geotechnical engineering, environmental services and transportation engineering.

The purpose of the Request for Proposal ("RFP") is to provide the Public Services Department with the ability to obtain assistance quickly during peak workload periods, staffing absences and when expedited/fast track support is needed to satisfy City of Imperial customers. An important objective is to maintain a level of high-quality engineering, plan check if needed, surveying, inspection services, and construction management in the most cost-effective and efficient manner possible.

## COMPREHENSIVE EXPERIENCE

**Comprehensive Experience Provides Knowledge of the Local Environment and Relevant Project Issues.** DCE has been providing professional services to local public agencies throughout Imperial Valley for the last 16 years. Our staff is very knowledgeable of the City's standards and specifications, contracts, terms and conditions, billing procedures and project administration requirements. Our staff has worked very well and continues to work successfully with the City of Imperial staff on past and current projects.

DCE will provide the required technical expertise. DCE has experience coordinating with full range of stakeholder that would be involved in City projects. DCE's recent City of Imperial project experience includes 2<sup>nd</sup> Street Widening Project CM and Inspections, Aten Road Bike Lane Design, On Call Inspections Services and Plan Checking Services.

## **COORDINATION AND COMMUNICATION**

### **Coordination and Communication Provides Streamlined and Efficient Delivery of Services.**

The Project Team will be led by Carlos Beltran. Mr. Beltran has been responsible for providing professional services to local public agencies including the City of Imperial for the last fifteen years. Mr. Beltran has been working in engineering design and construction management in Imperial County for over 24 years.

Our team is very knowledgeable of the City standards and specifications, contracts, terms and conditions, billing procedures and project administration. As task orders are assigned, Mr. Beltran will be responsible for coordinating the work. Protocols will be established prior to any task order being issued under this contract to ensure that the approach to project scoping, negotiations, performance of the work, project deliverables, and billing and administrative functions are consistent, streamlined and that a high standard of quality is maintained on every task order.

Our team understands that the City has a high-level of responsibility and accountability in providing services to its residents. Our goal is to be efficient, cost-effective and highly responsive to your needs so that you can focus on planning and implementing your priorities. Our technical team has sufficient resources and specialized expertise that will work in concert with the City's mission. We stand ready to serve with integrity, trust and respect as an extension of your organization.

## **QUALITY CONTROL PROCEDURES**

Our team has an exceptional track record on work performance in the public sector. The fundamental reason for our successful performance is that we are committed to understanding the client's needs. Quality Control is a continuous process used at milestones and on a daily basis as work proceeds from desk-to-desk, discipline-to-discipline and consultant to client.

Our office is conveniently located in the City of Imperial just a few miles from City Hall. Our staff is available to meet with City staff on projects within minutes. Dynamic Consulting Engineers, Inc. will work closely with the City Public Services and Engineering Department staff to assure the City the projects are completed precisely and in a timely manner.



## DYNAMIC CONSULTING ENGINEERS, INC. (DCE) PROFESSIONAL SERVICES:

DCE has been providing professional services to local public agencies for over sixteen years. We have the resources and experience to provide the following professional services:

### \* CIVIL ENGINEERING DESIGN

Dynamic Consulting Engineers, Inc. (DCE) has extensive experience working with local public agencies. DCE will provide professional civil engineering design services and related work to include preparation of plans, specifications, cost estimates and provide consultation and recommendations. DCE continues to provide exceptional services in Civil Engineering Design including:

- Design of Street Improvement including Traffic Signals, Striping Plans, Drainage Plans, Lighting Plans, Traffic Control Plans, Roadway Design, Utilities, and Surface Improvements.
- Grading and Drainage Design including storm drainage system design, earthwork calculations, erosion control plans, dust control and PM 10 Plans and Storm Water Pollution Prevention Plans.
- Hydrology and Hydraulic Calculations including preparation of Hydrology Reports using the Rational Method or Synthetic Unit Hydrograph Method for larger projects.
- Under Ground Utility Design including design of Sanitary Sewer Collection Systems, Water Distribution Systems, Storm Drain Collection Systems and assistance and coordination in the design of dry utilities including coordination with IID Energy, The Gas Company, ATT and Cable Company.
- Preparation of Preliminary Engineering Reports.



## \* CONSTRUCTION MANAGEMENT AND INSPECTIONS

Dynamic Consulting Engineers, Inc. has experience in construction inspection of street improvements, deep gravity sewer mains, roadway improvements, water pipelines, water treatment plant improvements, pump stations, subdivisions and major structural projects. Field inspections and testing are performed during construction to ensure compliance with plans and applicable standards. Safety is a priority.

DCE has extensive experience in Construction Management and Inspections for the following:

- Sanitary sewer collection systems, water distribution systems and pump stations
- Large reinforced concrete pipe (RCP)/High Density Polyethylene Pipe (HDPE) installations
- Dewatering
- Water treatment plants
- Small and major projects
- Concrete foundations
- High pressure gas pipelines
- Roadway improvement/repair projects
- Signalization projects
- Irrigation canals
- Land development projects
- Federally funded projects
- Major structural projects including liquid containing concrete tanks, pre-stressed concrete bridges, commercial and residential building structures.
- Sample of some of the services that we can provide during construction:
  - Preconstruction activities such as preparation of a preconstruction meeting agenda, coordination with utility purveyors, schedule review, submittal review, respond to RFIs, documentation per the Local Procedures Manual (LAPM) for federally funded projects
  - Inspection and verification that the project is built according to the plans and specifications
  - Keeping the projects within funding agency requirements
  - Coordination and open communication
  - Daily, Weekly, Monthly and Final Reporting
  - Filing and storing of documents per project requirements
  - Certified Payroll/Labor compliance verification
  - Verification of horizontal locations and vertical elevations of pipelines
  - Verification that all applicable environmental mitigation measures are adhered to
  - Construction staking
  - Verification that the contractor is complying with all Cal/OSHA requirements (construction safety remains the responsibility of the contractor). Our inspectors and resident engineers comply with all applicable safety requirements.
  - Preparation of cost estimates
  - Review and recommendations for proposed change orders
  - Preparation of as-built drawings



## \* LAND SURVEYING

Dynamic Consulting Engineers, Inc. has a registered land surveyor on staff. DCE has sophisticated Land Surveying GPS equipment and our surveyors are ready to complete the most challenging survey projects. DCE has experience in these and other related areas of land surveying:

- **Topographic Survey Maps, Boundary Surveys and ALTA Survey Maps.**
- Earthwork Calculations.
- Tentative Maps.
- Record of Surveys.
- Final Maps and Parcel Maps.
- Preparation of Legal Descriptions.
- Corner Records.
- **Lot Line Adjustments and Parcel Mergers.**
- Right of Way Maps.
- Appraisal Maps.
- Preparation of Grading and Precise Grading Plans.
- **Construction Staking.**
- Field Topographic Surveys using GPS and Total Station
- Lot and Boundary Closure Calculations.
- **Survey Mapping Review Services.**
- **Aerial Survey by Drones**



Dynamic Consulting Engineers, Inc. (DCE) uses conventional equipment, total station and GPS to construct topographic maps illustrating the existing characteristics of the site, including topographic contours, natural features, vegetation and trees, buildings, roadways, utilities, and associated elevation and attribute data. These topographic surveys provide the basis for all subsequent project site design and engineering. **DCE also provides aerial survey by drones including aerial imaging.**

### \* PLAN CHECKING

As an extension of staff, DCE provides plan checking services to public agencies on an on-call basis. DCE completes plan checks for public and private improvement plans including land development, grading, wet utilities, etc. DCE can also complete constructability reviews prior to construction to save projects from changes during construction. DCE will check for:

- Completeness of the Submittal
- Compliance with the City requirements and County, State and Federal Requirements
- Title Sheet Information
- Current Legal Description
- Correct Mathematics
- Proper Delineation and Identification of Correct Data
- Compliance with NPDES Requirements
- Compliance with Imperial County Air Pollution Control District Requirements
- All Appropriate Data is Shown
- Calculated, Recorded and Measured Distances are consistent
- Plans and Consistency with Design Report and Other Planned Improvements
- Other Items as Necessary

### \* LAND DEVELOPMENT

Dynamic Consulting Engineers, Inc. also has experience in these and other related areas of land development:

- Preparation of Topographic Survey Maps and Earthwork Calculations.
- Preparation of Tentative Maps and Site Plans.
- Preparation of Record of Surveys, Final Maps and Parcel Maps.
- Preparation of Grading and Precise Grading Plans.
- Design and Improvements to Water Distribution Systems, Sanitary Sewer Collection System and Storm Water Collection Systems.
- Street Improvements, including street design, curb and gutter, sidewalks, driveways and assistance with design of dry utilities.
- Retaining Walls, concrete and concrete masonry unit (CMU) walls.
- Construction Staking.
- Preparation of Fugitive Dust Control Plans. PM-10 plans.

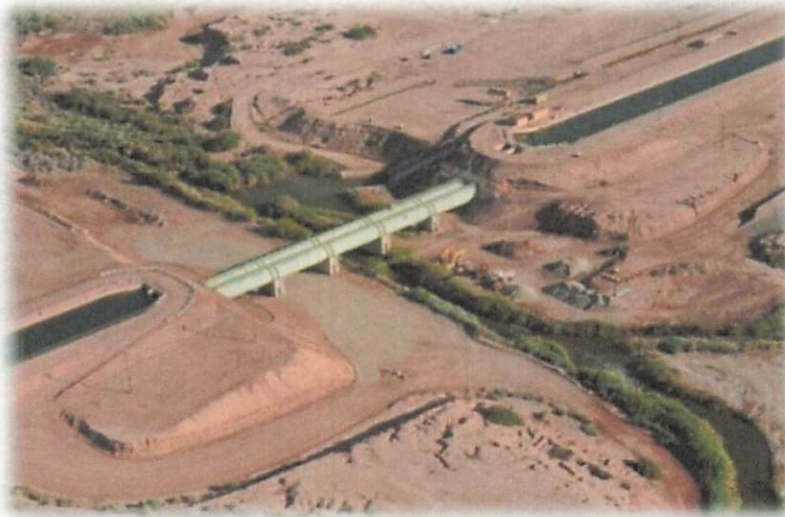


**\*AERIAL TOPOGRAPHIC SURVEY BY DRONE AND AERIAL PHOTOGRAPHY**

DCE has the resources to provide clients with Aerial Topographic Survey and Photography. DCE takes aerial photographs of current projects once a month to provide clients with construction updates. Aerial Photographs are a great tool to present project updates to Management and Council Members. Aerial Photographs have been a very helpful tool used during planning stages of projects, during construction and after construction to obtain a visual representation of project progress.



City of El Centro LaBrucherie Ave and Orange Ave. - LaBrucherie Avenue Widening Improvement Project



IID All American Canal New River Siphon Repair

## **ANALYSIS OF EFFORT/METHODOLOGY:**

### **As Needed Engineering Services:**

#### *RECOMMENDATIONS/SCOPE OF WORK*

The following is the interpretation of the project scope of work:

#### *General:*

As needed, DCE will provide the City with the general civil engineering services in accordance with City policies, procedures and guidelines. We will prepare and/or review the design calculations, technical specifications and other related materials and check for conformance as requested by the City.

DCE will not offer any services that might be construed as a conflict of interest.

#### *Engineering Documents:*

DCE will reference the latest revisions of the following documents when preparing engineering documents and plan checks (if needed) for the City:

- a. Written communication/direction from the City. Any related oral communication or direction by the City will be memorialized and a copy sent to the City.
- b. City of Imperial Conditions of Approval.
- c. City of Imperial Water, Sewer and Storm Drain Master Plans.
- d. City of Imperial General Plan
- e. Project design documents such as the Geotechnical, Environmental and Title Reports.
- f. City of Imperial Ordinances.
- g. Subdivision Map Act, latest revision.
- h. Other Agencies' requirements, such as Imperial Irrigation District, County of Imperial, utility companies and Caltrans.
- i. A Policy on Geometric Design of Highways and Streets, American Association of State Highway and Transportation Officials (AASHTO).
- j. Guide to Utility Location, San Diego/Imperial Counties Chapter of the American Public Works Association.
- k. Highway Capacity Manual, Transportation Research Board, National Research Council.
- l. Highway Design Manual, CALTRANS.
- m. Standard Specifications for Public Works Construction (Greenbook)
- n. Hydrology Manual, Imperial Irrigation District and County of Imperial Draft Hydrology Manual

- o. Manual on Uniform Traffic Control Devices for Streets and Highways, U.S. Department of Transportation, Federal Highway Administration.
- p. Planning and Design Criteria for Bikeways in California, CALTRANS.
- q. Standard Specifications, CALTRANS.
- r. Standard Plans, CALTRANS.
- s. Standard Specifications for Highway Bridges, American Association of State Highway and Transportation Officials, (AASHTO).
- t. Traffic Manual, CALTRANS.
- u. Local Assistance Procedure Manual (LAPM), CALTRANS
- v. California Building Code and ACI Manuals.
- w. Professional Engineer's Act (Business and Professions Code §§ 6700 – 6799)
- x. Rules of the Board for Professional Engineers and Land Surveyors California Code of Regulations Title 16, Division 5 §§ 400-476
- y. Any other documents as directed or approved by the City.

*Engineering Methodology:*

We will use our engineering experience to prepare design plans that will meet State, Federal, local and City policies, procedures and guidelines and ensure the health and safety of the public.

During the preparation of engineering documents, DCE will:

1. Prepare plans assuring consistency with other planned improvements.
2. Prepare engineering documents that will reflect the recommendations of specific project studies and reports.
3. Identify and evaluate existing conditions of the project and provide for innovative flexible improvement solutions that will reflect the city's goals and recommendations.

**DCE has extensive experience preparing engineering plans and specifications for:**

- a. Street Improvements including striping and signage plans
- b. Onsite and offsite grading plans, including precise grading and drainage for individual lots as well as the entire development, utility plans (water, sewer, storm, etc.), street improvement plans, lighting plans, erosion control plans, and detail sheets.
- c. Structural projects
- d. Domestic and raw water improvement plans

- e. Wastewater collection system improvement plans
- f. Submittal reports, including:
  - 1. Quantity and cost estimates
  - 2. Hydrology and hydraulic calculations and report including Rational Method and Synthetic Unit Hydrograph
  - 3. Street layout and designs
  - 4. Preliminary Engineering Reports
  - 5. Storm water best management practices & erosion control designs
  - 6. Water and sewer pressure and capacity calculations and analyses
  - 7. Structural Calculations
  - 8. Road Structural Section Calculations
  - 9. Compliance with Geotechnical Report
- g. Technical Specifications
  - 1. Road Structural Section components
  - 2. Trench backfill and restoration
  - 3. Signing and striping
  - 4. Storm Drain line and appurtenances
  - 5. Water/Sewer line and appurtenances
  - 6. Traffic Signal Components

## **AS NEEDED CONSTRUCTION MANAGEMENT AND INSPECTIONS**

### *APPROACH AND PHILOSOPHY TO CONSTRUCTION MANAGEMENT*

DCE's philosophy for providing management of the construction activities are as follows:

DCE will help make a project a success by:

- *Communicating effectively* with the Client, Contractor, affected residents and utility companies, and working in a partnership with the Contractor. Constant and open communication with the affected public goes a long way to contributing to the success of the project. Community relationships are important and we work hard to ensure that we communicate and address any concerns in the community for all projects.
- *Providing field inspections* that insure that the project is built according to the plans and specifications. In some cases flexibility is important. Many times the Contractor has very



good ideas on how to solve problems in the field. We believe in listening to all sides and recommending the best alternative, even if it is not our own.

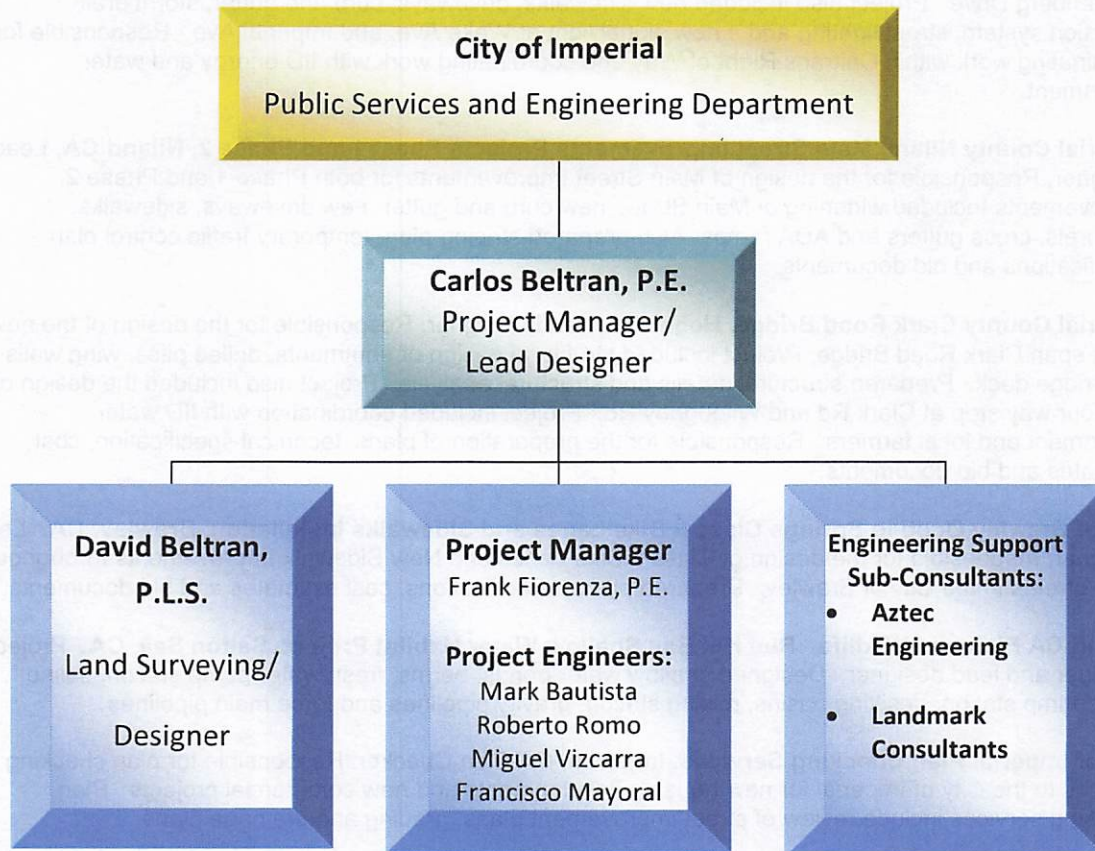
- *Providing a QA/QC effort focused on:*
  - Safety Management
  - Risk Management
  - Contract Administration
  - Change Order Management
  - RFI Management
  - Submittal Management
  - Document Management
  - Progress Meetings
  - Photo Management
  - Dispute/Claims Management
  - Scheduling Milestones and Management
  - Reporting (Daily, Monthly, Accident, Special)
  - Schedule of Values/Pay Applications
  - QA/Inspection
  - Community Relations

## PROJECT PERSONNEL ORGANIZATIONAL CHART AND TEAM QUALIFICATIONS

DCE proposes that Carlos Beltran, P.E. be the Project Manager and main contact for projects related to this RFQ. Frank Fiorenza, P.E. will also serve as a main contact as tasks Orders are issued. Mr. Fiorenza will manage the projects and work directly with City staff.

Mr. Beltran and Mr. Fiorenza have been working in Imperial County for over 24 years. They both have extensive experience working with local public agencies including IID and County of Imperial Public Works. DCE's experience in the Imperial Valley includes coordination of projects with IID, Caltrans, County Public Works, County Planning Department, Air Pollution Control District, US Army Corps of Engineers, local cities and utility companies.

Dynamic Consulting Engineers, Inc. is a local firm. The principal engineers and surveyors have been working in Imperial Valley for over 24 years and are very knowledgeable of the local Standards and Specifications, Caltrans Standards and The Standard Specifications for Public Works Construction (The Green Book). Our team is committed to providing the City exceptional service. Our dedicated engineers and project managers are available to work anytime, including weekends and around the clock if needed to complete projects on time.



**Education**

B.S. Civil Engineering,  
University of California Los Angeles (UCLA)

**Registrations**

Professional Engineer, Civil,  
CA, No. 69121

**CARLOS BELTRAN, P.E.**  
**Project Manager**

Carlos is a cofounder of Dynamic Consulting Engineers and has been providing project management and engineering design services for both the private and public sectors of the civil engineering industry. His professional and academic experience provides a broad-base, multi-disciplinary background in the field of civil engineering. Carlos is one of the principals at Dynamic Consulting Engineers and is responsible for project management and design of street improvement projects, water and sewer improvement projects, preparation of grading and drainage plans and the preparation of hydrology and hydraulic reports. Mr. Beltran has substantial experience working in municipal projects

throughout Imperial County.

**New River Improvement Project – Calexico Reach, City of Calexico/CA Department of Water Resources, Calexico, CA.** Construction Manager overseeing all construction activities of the New River Improvements Project. Construction Includes diversion structure, 8,200 LF of 72 inch diameter pipe, pump station, 5,000 LF of 16 inch diameter force main, outlet structure and grading of New River banks. Project administered by the City of Calexico and Funded by the California Department of Water Resources. Project Construction Cost \$42,500,000.

**City of El Centro Imperial Ave. Extension Phase 1 and Phase 2, El Centro, CA.** Construction Manager, provided construction management and inspection services for all construction activities for both Phase 1 and Phase 2 of the Project. Project included roadway extension from Interstate 8 to Dannenberg Drive. Project also included new sidewalks, driveways, curb and gutter, storm drain collection system, street lighting and a new signal light at Wake Ave. and Imperial Ave. Responsible for coordinating work within Caltrans Right of Way and coordinating work with IID energy and water department.

**Imperial County Niland Main Street Improvements Projects Phase1 and Phase 2, Niland CA,** Lead Designer, Responsible for the design of Main Street Improvements for both Phase 1 and Phase 2. Improvements Included widening of Main Street, new curb and gutter, new driveways, sidewalks, spandrels, cross gutters and ADA ramps. Also prepared striping plan, temporary traffic control plan specifications and bid documents.

**Imperial County Clark Road Bridge, Heber CA,** Lead Designer, Responsible for the design of the new 110 ft span Clark Road Bridge. Project included structural design of abutments, drilled piles, wing walls and bridge deck. Prepared structural details and structural analysis. Project also included the design of a new four way stop at Clark Rd and Wiloughby Rd. Project included coordination with IID water department and local farmers. Responsible for the preparation of plans, technical specification, cost estimates and bid documents.

**City of Brawley Ocotillo Springs Class II Bike Lanes and Sidewalks Installation, Brawley, CA.** Lead Designer, responsible for the design of Class II Bike Lanes and New Sidewalk Improvements throughout many streets in the City of Brawley. Prepared plans, specifications, cost estimates and bid documents.

**IID and CA Fish and Wildlife - Red Hill Bay Shallow Water Habitat Project, Salton Sea, CA.** Project manager and lead designer. Designed shallow water ponds, berms, fresh water pump station, saline water pump station, desilting basins, mixing station, gravity pipelines and force main pipelines.

**City of Imperial Plan Checking Services, Imperial, CA** Plan Checker. Responsible for plan checking services to the City of Imperial for new housing developments and new commercial projects. Plan Checking services include review of street improvement plans, grading and drainage plans.

**Education**

B.S. Civil Engineering, Cal  
Poly Pomona

**Registrations**

Professional Land Surveyor,  
CA, No. LS 8482

**Years of Experience**

22 years

## DAVID BELTRAN, P.L.S.

### Survey Manager

Mr. Beltran is a cofounder of Dynamic Consulting Engineers and a registered professional land surveyor with more than eight years of experience in the industry. David has broad experience in coordinating survey services for large-scale projects for private developments and local agencies. He is also experienced in the preparation of topographic surveys, Subdivision Maps, Record of Surveys, Right of Way Mapping and construction staking.

Mr. Beltran has substantial experience working in topographic survey projects in Imperial County. David also has substantial experience preparing record maps locally and is very knowledgeable of the County of Imperial guidelines and requirements.

**Project Experience**

**Survey Benchmark Elevation Adjustment Due to Earthquake Movement Project; FEMA-1911-DR Baja Earthquake; FEMA ID 025-99025-00 CalEMA ID 025-00000; County of Imperial Project No. 5212 EQ. (Imperial County, State of California)** Responsible for the adjustment of the Primary GPS network of the Imperial County's geodetic control system. The network consisted of 167 existing monuments. The existing survey monuments were correlated to the Continuous GPS (CGPS) and the California Real Time Network (CRTN) stations using California Spatial Reference Center (CSRC's) and National Geodetic Survey (NGS) database. The final geodetic coordinates were presented on one datum; NAD83(2011), epoch of 2010.0.

**N. International Avenue Improvement Project, City of Calipatria, CA.** Prepared the preliminary design report, which included and identified design parameters, existing conditions, existing infrastructure, site topography, existing utilities, and hydrology and storm drain conditions. Also, prepared the design plans and specifications for the storm water collection system, street improvement plans, and street rehabilitation plans.

**City of Brawley Ocotillo Springs Class II Bike Lanes and Sidewalks Installation, Brawley CA.** Design support. Mr. Beltran prepared the topographic survey map and identified existing right of way and easements for this project. Mr. Beltran also assisted with the design of the Class II Bike Lanes and New Sidewalk Improvements throughout many streets in the City of Brawley. Mr. Beltran also assisted with the preparation of plans, specifications, cost estimates and bid documents.

**County of Imperial, On Call Plan Check, Survey Maps Plan Checker,** Mr. Beltran has been providing plan checking services to the County of Imperial for several years. Plan Checking services include review of records of survey, legal descriptions, tentative maps and parcel maps.

**County of Imperial, Niland Main Street Improvements Projects Phase1 and Phase 2, Niland, CA,** Design Support, Responsible for the field topographic survey and preparation of the topographic base map. Identified all right of ways and existing easements. Mr. Beltran assisted with the design of Main Street Improvements for both Phase 1 and Phase 2. Improvements Included widening of Main Street, new curb and gutter, new driveways, sidewalks, spandrels, cross gutters and ADA ramps.

**Construction Staking for Numerous Public Works Projects:** Have been continuously providing construction staking for numerous public works projects in Imperial Valley including projects administered by the County of Imperial, City of Calexico, City of Brawley, City of El Centro and numerous water districts. Have been providing construction staking services in Imperial Valley for over 16 years.

**Education**

B.S. Civil Engineering, San Diego State University (SDSU; 1987

**Registrations**

Professional Engineer, Civil, CA, No. 45683

**Years of Professional Experience**

32 years

**FRANK FIORENZA, P.E.**  
**Project Manager**

Frank has 31 years combined experience, working as a P.E. for County of Imperial Department of Public Works, and the Imperial Irrigation District on a variety of road, bridge, landfill, municipal, water and drain canals, pipelining and structure projects within the County. He has coordinated with all local agencies, Caltrans, Bureau of Reclamation, and private sector developers in a wide range of civil engineering and construction projects. He has been involved in the planning, design and engineering, plan checking, construction inspection and management of projects under contract. He has expertise in obtaining grant funding, program management and final reporting and invoicing of federal and state funded transportation projects. With 19 years at County of Imperial as Deputy Director of Public Works-Engineering and 11 years at Imperial Irrigation as Principal Engineer, Frank is well versed in the

broad base of civil engineering within the Imperial Valley, whether planning, design, engineering, plan checking, project development for road and street transportation improvements, subdivisions or utility relocations.

Mr. Fiorenza has substantial experience working in municipal projects throughout Imperial County. Frank is very knowledgeable of the local agencies, including Caltrans, County of Imperial and Imperial Irrigation District standards and specifications.

**Recent Project Experience**

**2022-2011 Imperial Irrigation District–** As Principal Engineer, supervised seven (7) engineers and technicians in the design, bidding, and construction/construction management of water department capital and customer projects. Typical projects include pipelining, canal lining, structure replacements, driveway access crossings. Specialty projects included the Managed Marsh Phase 2 and 3 and technical support for IID General Services & Energy department for review, design and construction support of civil projects including parking lots, driveways, substation & generator pads. Coordinated with Energy department for distribution and transmission poles and pole lines for rehabilitation and new construction of energy facilities. Coordination with local cities, Caltrans, USBR Yuma Area Office on water infrastructure, Imperial Dam, and various transportation impacts to IID infrastructure. Reviewed private and other agency development projects for impacts to IID water canals and drain infrastructure. Provided technical support and review of agricultural development projects including impact assessment to local farmers. Provided technical support for IID operated and maintained bridges along the All-American Canal. Reviewed and assigned conditions for IID encroachment permits for various public agency and private development permit applications. Assigned and reviewed engineering requests for proposals, engineering studies, design plans, calculations and projects for procurement, bidding, construction and provided oversight review of construction management by consultants.

**Wills Drain No. 2 pipeline replacement.** Design 2020-2021, Construction/CM 2021; emergency capital project affecting agricultural customers. Replace ¼ mile of 24" RGRCP, east of Brawley from Hwy 78 north; construction starting within Caltrans ROW and north ¼ mile length within private agricultural field, coordination with farmer and Caltrans through permitting; Construction by IID Water Department, construction management by consultant, managed by IID (Frank).

**Trifolium lateral 7 canal lining from Del 122 to Del 124.** Design 2021, Construction/CM 2021-2022; a planned capital project to line ¼ mile of unlined canal to conserve water and reduce future O&M costs. Located south of Westmorland, CA along Griswold Road. Design by IID, construction by both IID forces and contractor. Coordination with County through permitting, and farmers for water cut out. The final cost was \$550,000 by IID and Contractor bid.

**Education**

Cal Poly Pomona, BS Civil Engineering

**Years of Experience**

12 years

**MARK BAUTISTA**

**Senior Inspector/Project Engineer**

Mark works as a field inspector and as a project engineer. Mark has extensive experience working on large capital improvement projects in the public sector as a design engineer and as a project inspector. His work and academic experience provides a broad-base, multi-disciplinary background in the field of civil engineering. Mark is responsible for design and inspections of street improvement projects, water and sewer improvement projects, preparation of grading and drainage plans and the preparation of hydrology and hydraulic reports. Mr. Bautista has substantial experience working on inspection projects for the County of Imperial. Mark is very knowledgeable of the local agencies and Caltrans standards and specifications as well as the County of Imperial Standards and Specifications

**Project Experience**

**Imperial County – Seeley Road Rehabilitation Project** – The entire Roadway System was rehabilitated in the Town of Seeley. Provided construction inspection services for the County of Imperial. Project included public notification of road rehabilitation improvements, establishment of traffic control, completion of Pothole and Pavement failure area rehabilitation work, grinding, sweeping of the road pavement surface including the removal and disposal of road residue, field location and tie off of utility covers in the road surface areas, placement of tack coat over swept road pavement surface prior to installation of A.C. pavement hot mix leveling course, installation of 1 inch A.C. hot mix pavement and installation of Asphalt Rubber Aggregate Membrane (ARAM) over A.C. hot mix pavement surface, installation of Type 2 slurry sealcoat over ARA, installation of pavement striping, and raising utility covers to finish pavement grade.

**Imperial County Public Works Department – Pitzer Road Asphalt Paving Improvements, 2011:** As project inspector, observed construction of this County paving project. Completed all required forms per County and Caltrans standards. Maintained records of construction activities and photographs per County standard filing system. Analyzed and made comments to Contractor's traffic control plan to keep Pitzer Road safe for local traffic during construction. Observed construction to ensure contractor complied with plans and specifications. In large part because of the efforts of Mr. Bautista, the project was completed on time and within budget.

**Imperial Irrigation District- Brawley Bypass Phase III Utility Relocation project, Brawley, CA.** As part of the utility relocation agreement between IID and Caltrans, IID is relocated and re-aligned several canals and drainage systems to accommodate the Brawley Bypass Highway 111. Duties included assisting the district with construction management and full time construction observations of earth work, concrete form work, rebar placement, concrete structure construction, canal lining construction, concrete pours, pipe installation, backfill and compaction. Coordinate the geotechnical testing, locations and frequency.

**Imperial Irrigation District –Dogwood Canal Pipeline Project Construction Management and Observation, Heber, CA.** Mr. Bautista provided construction management and observation for the construction of 2,100 LF of 72 inch RC Pipe. Mr. Bautista was the full time inspector during construction of pipelines, manholes and headwall structure. Mr. Bautista conducted meetings with the contractors and IID staff. Mr. Bautista provided vertical and horizontal documentation for the preparation of as-builts.



# JACK FLEMING, PE, QSD, QSP

Roadway, SWPPP, Utilities

## BACKGROUND

Jack has 14 years of experience involving roadway design and reconstruction, utility coordination, utility design, and pedestrian improvements. He also has extensive experience in construction administration, construction observation, and field engineering/inspections. He has completed transportation design projects for various agencies and jurisdictions throughout Arizona and California. Tasks within these projects include the preparation of design concept reports, final design plans, post-design activities, specifications and estimates, utility design and coordination, and various levels of public outreach. Jack's experience includes the design of local roads, widening of State Routes, water and sewer lines (including necessary pressure, leakage, and mandrel testing), and single lot grading and drainage plans. His inspection experience includes water lines, sewer lines, storm drain lines, roadway construction/reconstruction/rehabilitation, traffic signals, street lights, curb/gutter and sidewalk, and traffic striping/signage.

## RELEVANT EXPERIENCE

**Engineering On-Call Services; El Centro, CA (City of El Centro):** AZTEC is providing on-call engineering services to the City of El Centro. To date, AZTEC has delivered the following Task Orders:

- **Active Transportation Plan (ATP) Cycle 5 Improvements Task Order:** Project Manager. Jack was responsible for the oversight of the design and construction. This project included the construction of ADA ramps (new and modified) and sidewalks, Class II Bike Lanes, traffic calming devices (bulb outs, Rectangular Rapid Flashing Beacons, narrower traffic lanes), and drainage improvements. The City was awarded ATP funding through Caltrans to upgrade pedestrian improvements along 8th Street between Centinela Drive and Adams Avenue in an effort to promote the increase of trips accomplished by biking and walking. All plan reviews (30% conceptual, 60%, 90% and 100%) were completed under Jack's direct supervision. All aspects of the State Funding process were completed by Jack, including the funding allocation, project commencement, and project completion. Jack also acted as the Resident Engineer, overseeing all construction throughout the duration of the project.
- **Alder Sewer Repair Task Order; El Centro, CA:** Project Manager. AZTEC provided design and construction support services oversight for a portion of the Alder Sewer line that required upgrades. Local funds were used for the design and construction of a portion of the Alder Sewer line that did not meet design standards. The design of this project addressed 675 lineal feet of 27" sewer main that had multiple issues, including negative slope in a previously jack-and-bored section of pipe and major surcharging in one of the City's manholes. In-house efforts for this project included an initial and final Preliminary Design Report, Final PS&E documents, Phase I Environmental Site Assessment (ESA) subsurface utility engineering & utility coordination. AZTEC also assisted the City with construction support services which included construction oversight supervision, contractor pay applications, responding to RFI's and reviewing material submittals. The City added on construction support services for additional emergency sinkhole work based on AZTEC's performance with the Alder Sewer Repair Project.

## EXPERIENCE

2018 - Present AZTEC  
8 Years Other Firms

## EDUCATION

BS, Civil Engineering,  
University of Arizona, 2010

## REGISTRATIONS

2014 / Professional Engineer/  
California #83573

2017 / Professional Engineer/  
Arizona #63752

2018 / Professional Engineer /  
Texas #131203

## CERTIFICATIONS/PERMITS

Qualified SWPPP Developer  
(QSD)

Qualified SWPPP Practitioner  
(QSP)

## AFFILIATIONS

American Society of Civil  
Engineers (ASCE)

American Public Works  
Association (APWA)



# STEVE OGBURN, PE

Traffic/ITS

## BACKGROUND

Steve has 24 years of project management and engineering experience and has successfully managed a wide variety of transportation engineering and analysis projects. Having both a roadway and traffic design background and experience on both municipal and freeway projects, he has the breadth of knowledge and expertise to successfully execute a diverse range of transportation projects. His expertise includes multi-agency coordination, planning, design, complex construction sequencing and traffic management (MOT) requiring 3D modeling of phase-by-phase construction, environmental integration and active public involvement. Steve fully understands the requirements of the planning and design processes and can effectively manage quality assurance and control on multidisciplinary projects. He brings well-rounded experience and has managed projects of all types of complexities, ranging from local intersection improvements to arterial streets, rural and interstate highways, and urban freeways.

## RELEVANT EXPERIENCE

**3rd & 5th Avenues Modernization Project, City of Phoenix, AZ (City of Phoenix):** Project Manager for the Feasibility Study and Final Design. The project provided a conversion from one-way to two-way auto circulation on both 3rd and 5th Avenues from Washington Street to Roosevelt Street and reduced the Avenues to 1-lane 1-way circulations from Roosevelt to McDowell Road allowing space of a 2-way cycle track and addition street parking. The 3rd & 5th Avenues Improvement Project has successfully improved safety and corridor circulation and livability, while extending and expanding bike facilities and introducing innovative bicycle improvements.

**Tempe Streetcar, Tempe, AZ (City of Tempe):** Traffic Project Manager. Steven led the traffic engineering and geometric analysis and design of a unique streetcar roundabout by working closely with Rail Designer, Valley Metro and the Tempe City Council. Steven worked closely with City staff to prepare presentations of the technical documents to Council which approved the roundabout alternative as an innovative solution to a challenging geometric and operations challenge.

**Road/Bridge and Traffic Engineering On-Call; Orange County, CA (OCPW):** Project/Contract Manager. AZTEC is providing on-call road and bikeway engineering services under a qualified vendors list (QVL) to Orange County Public Works. Tasks under this on-call can include all types of design related to roadways and bikeways, including geometrics, design speeds, safety, hydrology and hydraulic analysis, soil mechanics, and computer programs related to roadway designs. Typical tasks may include preparation of plans, specifications, and estimates (PS&E) for design of roadway and/or bikeway projects. AZTEC has delivered three tasks orders under this contract, including an ADA improvements at Orange Avenue/Gilbert Street, Santa Ana Bridge Rehabilitation project and Las Patrones Parkway Wildlife Analysis.

**Wagon Wheel Pavement Rehabilitation Task Order; Orange County, CA:** Task Order Manager. AZTEC is providing engineering services for the rehabilitation of approximately 3.5 miles of arterial, collector and residential streets within and adjacent to the Wagon Wheel Community in Southern Orange County. The scope of work includes a field pavement survey using Falling Weight Deflectometer, Ground Penetrating Radar, and pavement cores to develop recommendations for pavement rehabilitation methods along with plans, specifications and estimates, and design support services during construction. AZTEC also conducted an ADA inventory of existing pedestrian ramps and sidewalks to document compliance with the County's ADA policy.

## EXPERIENCE

2008 - Present with AZTEC  
8 Years Other Firms

## EDUCATION

BS, Civil Engineering, University  
of Arizona, 2000

## REGISTRATIONS

Professional Engineer, California  
#C66455

Professional Engineer, Arizona  
#42880

Professional Engineer, Texas  
#115334

Professional Engineer, Indiana  
#PE11300634

Professional Engineer, Nevada  
#23372

## AFFILIATIONS

ASCE, PE Review Course  
Coordinator

ITE

American Council for Court  
Appointed Special Advocates,  
Charity Fundraiser Coordinator

Habitat for Humanity, Volunteer



## SUMMARY OF STAFF QUALIFICATIONS

The staff of *LandMark Consultants, Inc.* is a combination of professional, technical, and administrative personnel who approach each project with skill, experience, and innovative technology. The most valuable asset of the company is the dedication of all its employees to the continued growth, success, and reputation of the firm for providing highly responsive, personal service. Mr. Jeffrey Lyon, founder and CEO, practices the business philosophy of maintaining accessibility and personal relationships with clients and employees alike.

Brief outlines of the qualifications of our key professional and technical staff follow. Detailed resumes are included at the end of this document.

**Mr. Jeffrey O. Lyon, PE**  
**CEO/Principal Engineer**  
**El Centro, CA**

Mr. Lyon is the founder and CEO of *LandMark Consultants, Inc.* and is responsible for technical oversight of its offices. He has over thirty-five (35) years of experience in geotechnical engineering in southern California and Arizona. In addition to practicing geotechnical engineering, Mr. Lyon is experienced in agricultural, structural and general civil engineering, making him sensitive to the needs of the design and construction team. Mr. Lyon's experience includes power plants, electrical substations, transmission lines, hydro-electric plants, concrete structures evaluations, geothermal field ground movement studies, deep foundation systems, ground improvement methods, schools and hospitals, and all varieties of public works projects. Mr. Lyon is a registered professional engineer in California and Arizona.

---

**Mr. Peter LaBrucherie, PE**  
**Vice President/Principal Engineer**  
**El Centro, CA**

Mr. LaBrucherie has ten (10) years of experience in the geotechnical field, having performed geotechnical investigations in the Coachella and Imperial Valleys. His field experience includes logging of soil borings and exploratory trenches, collection and documentation of soil samples, collection of field geotechnical data, and soils testing. Mr. LaBrucherie is also experienced in Phase I Environmental Site Assessments, soil infiltration and percolation testing, soil compaction testing, concrete testing, geopier installation inspection, and rebar inspection. Mr. LaBrucherie is a registered professional engineer in California.

---

**Mr. Steven K. Williams, PG, CEG**  
**Senior Engineering Geologist**  
**El Centro, CA**

Mr. Williams is an engineering geologist with over thirty (30) years of experience in engineering geology, geotechnical and environmental site assessment in southwestern Arizona and southern California. In addition, his experience includes two years in the mining exploration industry in Utah and Nevada. He has served as a project geologist on transmission lines, substations, bridges, pipelines, canals, reservoirs, residential subdivisions, schools, geothermal power plants, public works facilities, and water and wastewater treatment facilities. Mr. Williams is a Registered/Professional Geologist in the states of Arizona and California and a Certified Engineering Geologist in California.

---

**Mr. Julian Avalos, PE, GE**  
**Senior Geotechnical Engineer**  
**El Centro, CA**

Mr. Avalos has over twenty-five (25) years of experience in the geotechnical field, having performed geotechnical investigations throughout Mexico, Mexico City, and in the Mexicali and Imperial Valleys. His field experience includes logging of soil borings and exploratory trenches, collection and documentation of soil samples, collection of field geotechnical data, and soils testing. Mr. Avalos is also responsible for preparing computer-generated slope stability analysis, liquefaction analysis, and subsequent writing of geotechnical reports for transmission lines, substations, bridges, pipelines, canals, reservoirs, residential subdivisions, schools, geothermal power plants, public works facilities, and water and wastewater treatment facilities. Mr. Avalos has also provided construction management for soil cement channel and Caltrans highway improvements. Mr. Avalos is a registered professional engineer in California and Arizona and a registered geotechnical engineer in California.

---

In addition to the professional staff described above, the *LandMark Consultants, Inc.* El Centro office maintains a staff of eight (8) field and laboratory technicians and four (4) administrative staff. The field and laboratory technicians are CALTRANS and ASTM certified in laboratory and field-testing procedures.

**EMPLOYEE COUNT AND STAFF AVAILABILITY**

**Dynamic Consulting Engineers, Inc.**

**Employee Count by Title and Discipline**

Title/Discipline	Count
Executives/Managers	1
Licensed Professional Engineers	2
Licensed Professional Surveyors	1
Project Engineers/Surveyors	8
Administrative/Office/Clerical	2
<b>TOTAL</b>	<b>13</b>

**Staff Availability**

Staff Name	Proposed Position	Office Location	Expected Availability
Carlos Beltran, P.E.	Project Manager	Imperial, CA	50%
David Beltran, P.L.S.	Land Surveying	Imperial, CA	50%
Frank Fiorenza, P.E.	Project Manager	Imperial, CA	50%
Mark Bautista	Project Engineer/Inspector	Imperial, CA	80%
Roberto Romo	Project Engineer/Inspector	Imperial, CA	80%
Miguel Vizcarra	Project Engineer/Inspector	Imperial, CA	80%
Francisco Mayoral	Aerial Drone and Survey	Imperial, CA	50%
Berenice Valle	Project Administration	Imperial, CA	60%

## EXPERIENCE AND TECHNICAL SUPPORT

Dynamic Consulting Engineers, Inc. staff has extensive experience working on Capital Improvement Projects for local public agencies throughout Imperial Valley. Our professional engineers and project management team is very knowledgeable of the local standards and specifications.

## ON CALL SERVICES EXPERIENCE

Dynamic Consulting Engineers, Inc. is currently providing local communities with on-call services for engineering, surveying, plan checking, inspections and construction management.

**CITY OF CALEXICO PUBLIC WORKS DEPARTMENT ON-CALL SERVICES, CALEXICO CA.** Dynamic Consulting Engineers (DCE) is currently providing on-call services for engineering design, plan checking, surveying, inspections and construction management services for the City of Calexico.

City of Calexico Contact Person:

Lilliana "Lily" Falomir, M.P.A.

Public Works Manager

City of Calexico, Public Works Department

Phone: (760) 768-2160

Email: falomirl@calexico.ca.gov

**COUNTY OF IMPERIAL PUBLIC WORKS DEPARTMENT ON-CALL SERVICES.** Dynamic Consulting Engineers (DCE) is currently providing on-call services for engineering design, plan checking, surveying, inspections and construction management services for the County of Imperial Public Works Department.

County of Imperial Contact Person:

John Gay, PE

Director of Public Works, County of Imperial

Phone (442) 265-1818

Email: johngay@co.imperial.ca.us

## CITY OF EL CENTRO PUBLIC WORKS DEPARTMENT ON-CALL SERVICES, EL CENTRO CA.

Dynamic Consulting Engineers (DCE) is currently providing on-call services for engineering inspections and construction management services for the City of El Centro.

City of El Centro Contact Person:

Abraham Campos, P.E.

Public Works Director/City Engineer

City of El Centro

Phone: (760) 336-8520

Email: acampos@cityofelcentro.org

**NEW RIVER IMPROVEMENT PROJECT – CALEXICO REACH, CITY OF CALEXICO/CA DEPARTMENT OF WATER RESOURCES, CALEXICO, CA.** Construction Manager overseeing all construction activities of the New River Improvements Project. Construction Includes diversion structure, 8,200 LF of 72 inch diameter pipe, pump station, 5,000 LF of 16 inch diameter force main, outlet structure and grading of New River banks. DCE is currently providing three full time inspectors and two project managers. Project administered by the City of Calexico and Funded by the California Department of Water Resources. Project Construction Cost \$42,500,000.



**CITY OF EL CENTRO IMPERIAL AVE. EXTENSION PHASE 1 AND PHASE 2, EL CENTRO, CA.** DCE provided construction management and inspection services for all construction activities for both Phase 1 and Phase 2 of the Project. Project included roadway extension from Interstate 8 to Dannenberg Drive. Project also included new sidewalks, driveways, curb and gutter, storm drain collection system, street lighting and a new signal light at Wake Ave. and Imperial Ave. Responsible for coordinating work within Caltrans Right of Way and coordinating work with IID energy and water department.



**IMPERIAL COUNTY NILAND MAIN STREET IMPROVEMENTS PROJECTS PHASE 1 AND PHASE 2, NILAND CA,** Lead Designer, Responsible for the design of Main Street Improvements for both Phase 1 and Phase 2. Improvements Included widening of Main Street, new curb and gutter, new driveways, sidewalks, spandrels, cross gutters and ADA ramps. Also prepared striping plan, temporary traffic control plan specifications and bid documents.

**IMPERIAL COUNTY CLARK ROAD BRIDGE, HEBER CA,** Lead Designer, Responsible for the design of the new 110 ft span Clark Road Bridge. Project included structural design of abutments, drilled piles, wing walls and bridge deck. Prepared structural details and structural analysis. Project also included the design of a new four way stop at Clark Rd and Wiloughby Rd. Project included coordination with IID water department and local farmers. Responsible for the preparation of plans, technical specification, cost estimates and bid documents.



**CITY OF BRAWLEY OCOTILLO SPRINGS CLASS II BIKE LANES AND SIDEWALKS INSTALLATION, BRAWLEY, CA.** Lead Designer, responsible for the design of Class II Bike Lanes and New Sidewalk Improvements throughout many streets in the City of Brawley. Prepared plans, specifications, cost estimates and bid documents

**\$3.8 MILLION, CITY OF EL CENTRO – ENGINEERING/CONSTRUCTION MANAGEMENT OF TOWN CENTER STREET IMPROVEMENTS PROJECT FUNDED BY ECONOMIC DEVELOPMENT ADMINISTRATION (EDA) (2011-2013) –**

DCE prepared plans, specifications and cost estimates and completed the construction management for the project. DCE prepared the design plans and specifications for water distribution system, sanitary sewer collection system, storm water collection system, street improvements plans, street rehabilitation plans, traffic signal lights at the intersection of 8<sup>th</sup> Street and Cruickshank. The striping and signage plans and SWPPP were prepared and inspected by DCE. The specifications were prepared per City of El Centro and Economic Development Administration requirements. DCE assisted the City of El Centro with coordination and preparation of encroachment permits application with IID to relocate existing overhead power lines. DCE also coordinated with dry utilities the design and installation of gas lines, cable and underground power. DCE also prepared the contract and bid documents and assisted the city during the bidding process. All legal documents to obtain additional right of ways and easements for the road widening portion of this project were prepared and submitted. The change orders were less than 2.0% of the original construction bid.



**Carlos Beltran, PE was the Construction Manager and the project took nine months to complete.**

Contact: Abraham Campos, PE – Senior Engineer, City of El Centro, 1275 Main St, EL Centro CA, 92243. (760) 337-5182

**PROJECT HIGHLIGHTS**

The City of El Centro was given a short deadline by the Economic Development Administration (EDA) to complete all construction documents or the City would lose the grant allocated for this project. DCE successfully completed all construction documents and was able to demonstrate the quality of our work, our ability to meet project deadlines, commitment of our staff, and the positive working relationships that our staff developed with the clients. DCE provided full time inspection and construction management on the project and it was completed on time and within budget.



**\$5.5 MILLION, CONSTRUCTION MANAGEMENT FOR THE IMPERIAL IRRIGATION DISTRICT – BUREAU OF RECLAMATION – ALL AMERICAN CANAL NEW RIVER SIPHON EARTHQUAKE REPAIR PROJECT (FEMA FUNDED), CALEXICO, CA (2011):** DCE provided construction

management and inspections for the All American Canal New River Siphon Repair Project. Several IID canals and drains experienced major damages during the 2010 Easter Sunday 7.2 Magnitude Earthquake. The All American Canal New River Siphon experienced substantial embankment erosion, extensive damage to the existing concrete inlet and waste-way box culverts, extensive concrete spillway chute cracking, concrete spillway instability and sliding, and concrete joints separation.



There were many challenges encountered during planning and construction of this project. One of the biggest hurdles was to complete this project in a short construction time period or the IID and Bureau of Reclamation (BOR) could have potentially lost the FEMA Funding. DCE construction manager and inspectors worked very closely with IID, BOR, contractors, Imperial County, Calexico Airport, Border Patrol and adjacent property owners to assure this project was completed within the allowed construction time. DCE kept close communication and coordination with all parties involved in this project. DCE assisted IID in coordinating work schedules with the contractors and subcontractors, and materials deliveries. Another hurdle encountered in this project was the potential hazards of working near and around the New River. DCE coordinated with Imperial County Health Department vaccinations for construction crew and parties regularly visiting the project site.

Construction of this project included the rebuilding of the north and south embankments of the All American Canal, Concrete Spillway Stabilization including grout injection and installation of drilled piers to stabilize the spillway. Project also included the relocation of existing drains and overhead power lines. DCE prepared detailed daily reports for IID and Bureau of Reclamation, coordinated weekly progress meetings, updated construction schedules and verified contractors payment requests.



Dynamic Consulting Engineers, Inc **Carlos Beltran, P.E. was the Construction Manager on this project. Project took 10 Months to Complete.** This Project was managed by Imperial Irrigation District, designed by Bureau of Reclamation and Funded by The Federal Emergency Management Agency (FEMA).

### PROJECT HIGHLIGHTS

The All American Canal New River Siphon project was given a short deadline by FEMA to complete construction or IID and BOR could potentially lose the funds. DCE worked very closely with all parties involved and the project was completed within the specified time and under budget. Bureau of Reclamation gave good remarks to Dynamic Consulting Engineers Inc for making this project run smoothly.

Contact Person: Francisco Pena, IID Construction Division, (760) 427-7675, 333 Barioni Blvd, Imperial CA



**REFERENCES**

	REFERENCE /CLIENT:	CONTACT INFORMATION:
1.	<b>Imperial Irrigation District</b> Water Engineering Department 333 E. Barioni Blvd. Imperial CA, 92251	David Escobar, IID Program Management (760) 427-8096 Email: descobar@iid.com
2.	<b>County of Imperial</b> Public Works Department 155 S. 11 <sup>th</sup> Street El Centro, CA 92243	John Gay, P.E. Public Works Director (760) 482-4462 Email: JohnGay@co.imperial.ca.us
3.	<b>City of Calexico</b> Public Works Department 608 Heber Avenue Calexico, CA 92231	Lilliana "Lily" Falomir, M.P.A. Public Works Manager – Administrative 760/768-2160 Email: <a href="mailto:falomirl@calexico.ca.gov">falomirl@calexico.ca.gov</a>

DBE (DISADVANTAGED BUSINESS ENTERPRISE) CERTIFICATION

**CALIFORNIA UNIFIED CERTIFICATION PROGRAM  
DISADVANTAGED BUSINESS ENTERPRISE CERTIFICATE**

**DYNAMIC CONSULTING ENGINEERS, INC**

755 DESERT GARDENS DRIVE  
EL CENTRO, CA 92243

Owner: CARLOS BELTRAN  
Business Structure: CORPORATION

This certificate acknowledges that said firm is approved by the California Unified Certification Program (CUCP) as a Disadvantaged Business Enterprise (DBE) as defined by the U.S. Department of Transportation (DOT) CFR 49 Part 26, as may be amended, for the following NAICS codes:

NAICS Code(s) \* Indicates primary NAICS code

- \* 541330 Engineering Services
- 541340 Drafting Services
- 541370 Surveying and Mapping (except Geophysical) Services
- 541611 Administrative Management and General Management Consulting Ser
- 541618 Other Management Consulting Services

Work Category Code(s)

- |       |            |       |                |
|-------|------------|-------|----------------|
| C8700 | CONSULTANT | C8710 | ENGINEERING    |
| C8760 | SURVEYOR   | C9826 | LAND SURVEYING |

Licenses

- |    |                |    |               |
|----|----------------|----|---------------|
| EC | Civil Engineer | LS | Land Surveyor |
|----|----------------|----|---------------|

**CERTIFYING AGENCY:**

DEPARTMENT OF TRANSPORTATION  
1823 14TH STREET, MS 79  
SACRAMENTO, CA 95811 0000  
(916) 324-1700

UCP Firm Number: 37931

*James Salas*  
CUCP OFFICER

October 1, 2009

It is CUCP's policy and objective to promote and maintain a level playing field for DBEs in California on Federal-aid contracts. We ensure nondiscrimination in the award and administration of U.S. DOT assisted contracts based on the requirements of 49 CFR Parts 21 and 26.



## ADDENDUMS ACKNOWLEDGEMENT

DCE has received and reviewed the following addendums:

- Addendum No. 1 – received 07/24/2024



**CITY OF IMPERIAL**  
**ON CALL CIVIL ENGINEERING SERVICES**

**RFP 2024-04**

**ADDENDUM NO. 1**

**7/18/2024**

**NOTICE TO ALL POTENTIAL RESPONDENTS**

The Request for Proposals (RFP) is modified as set forth in this addendum. The original RFP Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the RFP. Respondent shall take this Addendum into consideration when preparing and submitting its Proposal.

**Question No. 1:**      **On Section VIII - Evaluation Criteria, the Cost has an approximate weight of 10%, if the cost is related to a fee schedule, how will the rates be scored?**

*Disregard original evaluation criteria. Revised criteria outlined below:*

1	<i>Proposal Content and Format</i>	5 pts
2	<i>Consultant Experience</i> <ul style="list-style-type: none"> <li>• Qualifications and relevant experience of Consultant and subconsultant personnel</li> </ul>	30 pts
3	<i>Contract Understanding</i> <ul style="list-style-type: none"> <li>• Understanding of the on-call contract and work by task order</li> </ul>	30 pts
4	<i>Firm's Capabilities</i> <ul style="list-style-type: none"> <li>• Demonstrated capability on similar or related projects</li> <li>• Methods to be used in the performance of civil engineering tasks</li> <li>• Approach to maintaining quality of work and const control</li> <li>• Commitment to availability of personnel assigned to the contact for task order work on short notice</li> </ul>	35 pts

**Question No. 2:**      **Do the selected firms have to be able to provide all the requested services under the SCOPE OF SERVICES?**

*No, the consultant does not need to be able to provide all requested services under the "Scope of Services". List is for reference and adjustments can be discussed after contract award.*

**Question No. 3:**      **The RFP states, "the proposal shall be limited to twenty-five (25) double-sided pages". Can the proposal be fifty (50) single-sided pages, or is the requirement to have double-sided pages?**

*It is requested consultants adhere to the 25 double sided pages requirement outlined within the RFP for hard copy proposals. However, the PDF submittal will be 50 single sided pages as it is electronic format.*

**Question No. 4:** Item 8 (Page 8 of the RFP) states that the proposal should include a Fee Schedule of the Consultants Rates, inclusive of reimbursement costs. Please clarify if the reimbursement costs can be provided as a separate fee schedule or if the reimbursement costs should be included within our hourly rates.

*Reimbursement costs are to be included as a separate fee schedule. Do not include within hourly rates.*

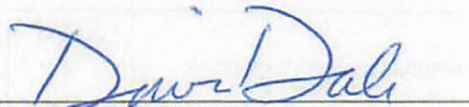
**Question No. 5:** Confirm that 25 pages double-sided means 50 pages digitally for RFP No. 2024-04?

*Correct. It is 25 pages double sided for hard copy proposals and 50 pages single sided for electronic/PDF submittal.*

**Note No. 1:** References being provided are to be individuals/agencies other than City of Imperial employees or officials.

Please acknowledge receipt of this addendum by signing and returning a copy of the Acceptance of Notice via email to [jguerrero@imperial.ca.gov](mailto:jguerrero@imperial.ca.gov). Each bidder must acknowledge receipt of this addendum in the noted space below and on the Proposal Acknowledgment Form (Exhibit A) of the RFP.

**Include a copy of this addendum with your Bid Proposal Package. It is the Potential Respondent's responsibility to notify its outsourcing partners, if any, about changes based on all addendums.**



David Dale, PE. PLS  
Public Services Director

Date: 7/18/24

**ACCEPTANCE OF NOTICE**

Receipt of the ADDENDUM No. 1 is hereby acknowledged by:

Dynamic Consulting Engineer, Inc  
Bidder's Company Name

Date: 7/24/2024

  
By: Carlos Beltran, P.E.  
Type of Print Name & Signature

Title: President

EXHIBIT A PROPOSAL ACKNOWLEDGEMENT FORM

The Proposer hereby acknowledges receipt of the proposal and agrees to the terms and conditions in the RFP, except where expressly stated in the proposal.

Original Signature by Authorized Officer/Agent  
\_\_\_\_\_  
Caitlin Estlin, P.E.  
Type Name of Signatory  
Dynamic Consulting Engineers, Inc.  
Company Name

President  
\_\_\_\_\_  
Type  
2475 Imperial Business Park Dr. Suite B  
Imperial, CA 92351  
262-947-6167  
Fax Number  
262-947-6167  
Phone Number

\_\_\_\_\_  
Web Site Address  
\_\_\_\_\_  
E-mail Address

Form of Business (check one) the following:  
 Sole Proprietorship  
 Partnership  
 Corporation  
 Limited Liability Company (LLC)



EXHIBIT A

PROPOSAL ACKNOWLEDGEMENT FORM

The Proposer hereby acknowledges receipt of addenda number(s) 1, if any.

By signing below, the Proposer agrees to all terms and conditions in this RFP, except where expressly described in the Proposer's Services Proposal.

[Signature]  
Original Signature by Authorized Officer/Agent

26-1842803  
Vendor's Tax ID Number (FEIN)

Carlos Beltran, P.E.  
Type/Print Name of Signatory

Dynamic Consulting Engineers, Inc  
Company Name

President  
Title  
2415 Imperial Business Park Dr. Suite B  
Imperial, CA 92251  
Consultant Mailing Address

760-545-0162  
Phone Number  
760-545-0163  
Fax Number

Website Address

cbeltran@dceinc.pro  
E-mail Address

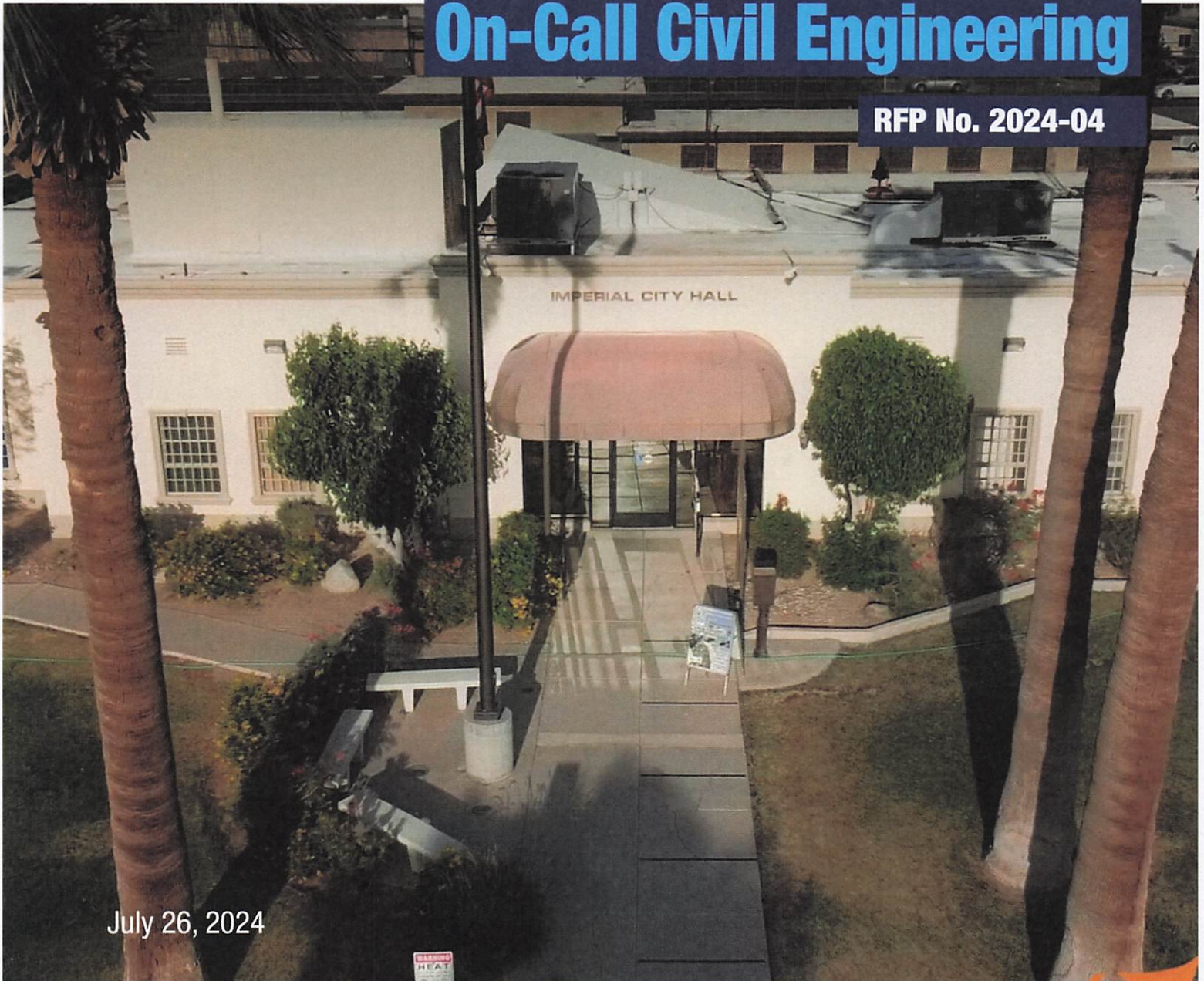
Form of Business (mark one of the following):

- Sole Proprietor/Individual
- Partnership
- Corporation
- Limited Liability Company (LLC)

If a corporation, the State where it is incorporated: California

# On-Call Civil Engineering

RFP No. 2024-04



July 26, 2024



@webbassoc  
webbassociates.com



3788 McCray Street  
Riverside, CA 92506



951.686.1070

Prepared for





*This page is intentionally left blank*

# Table of Contents

---

<b>Section 1. Letter of Transmittal.....</b>	<b>1</b>
<b>Section 2. Firm Structure and History .....</b>	<b>2</b>
<b>Section 3. Key Personnel .....</b>	<b>16</b>
<b>Section 4. Work Plan .....</b>	<b>43</b>
<b>Section 5. Sub-consultants .....</b>	<b>48</b>
<b>Section 6. Client Reference List .....</b>	<b>50</b>
<b>Section 7. Fee Schedule.....</b>	<b>51</b>
<b>Section 8. Certificate of Insurance .....</b>	<b>52</b>
<b>Section 9. Exceptions and Deviations.....</b>	<b>52</b>
<b>Section 10. Proposal Acknowledgement Form.....</b>	<b>53</b>

***This page is intentionally left blank***

# Section 1. Letter of Transmittal

---

July 26, 2024

Jenell Guerrero  
Assistant to the City Manager  
City of Imperial  
420 South Imperial Avenue  
Imperial, CA 92251



## Request for Proposals (RFP NO.2204-04) On-Call Engineering Services

Dear Ms. Guerrero:

Enclosed is Albert A. Webb Associates' (WEBB) response to the City of Imperial's (City) Request for Proposals for On-Call Civil Engineering Services.

The City requires a responsive professional consulting firm who possesses the experience and resources needed to achieve the goals and objectives of the City. WEBB has provided engineering services for public clients for nearly 80 years and recognizes the importance of being close to our clients. WEBB would like to illustrate to the City what makes us the absolute correct choice for your projects.

- WEBB has been providing planning, engineering, construction management, and inspection services to the city Since 2005
- We are located close to the City in Riverside County and can react to the needs of the City in a very short time frame
- We have extensive experience with providing numerous On-Call services to multiple public agencies, including providing in-house staff working as an extension of staff in an agency's office
- All of our project managers are invested in providing the City with the highest quality work product to achieve your goals, with our project managers priding themselves on customer service through effective coordination and communication on all projects
- We have long working relationships with many sub-consultants to augment our services on a project specific basis, providing all the services needed for a particular project and reducing the City's coordination efforts

WEBB is committed to contributing the highest quality assistance possible to achieve the City of Imperial's goals. We look forward to the opportunity to discuss our qualifications and answer any questions you may have. As Principal-in-Charge, I can be reached at (951) 686-1070 or at [brian.knoll@webbassociates.com](mailto:brian.knoll@webbassociates.com).

*WEBB has examined and became familiar with the work that is required in this RFP and is capable of performing quality work to achieve the objectives of the City.*

*The cost of printing, mileage, telephone, mailing and other expenses incidental to the performance of the main items of the On-Call engineering and professional consulting services to be rendered are included in the hourly rates schedule of said fee proposal and that there will be no additional charges.*

*This proposal shall remain valid for a period of not less than 90 days from the date of submittal.*

Sincerely,

A handwritten signature in blue ink, appearing to read "B. Knoll", is written over a horizontal line.

**Brian Knoll, PE**  
Principal-in-Charge  
Chief Operations Officer  
[brian.knoll@webbassociates.com](mailto:brian.knoll@webbassociates.com)

***This page is intentionally left blank***

## Section 2. Firm Structure and History

Since 1945, Albert A. Webb Associates (WEBB), a California **corporation**, has consistently provided civil engineering services to public sector clients in California, showcasing exceptional financial stability over the years. With offices in Riverside and Murrieta, we strategically serve the diverse needs of our valued clients.

WEBB is a comprehensive in-house professional services firm with extensive expertise, dedicated to serving public and private sector clients throughout Inland Southern California. Our broad range of services covers project development, planning, design, entitlement, funding, permitting, construction management, and inspection. This, coupled with our enduring legacy and strategically located offices, makes WEBB the premier choice for comprehensive civil engineering services, ensuring the success of our clients' projects and fostering continued professional partnerships.

### Financial Stability

WEBB is a financially secure California Corporation. We assure our clients that we have the financial resources and organizational capabilities to conduct and complete the required services in a proficient and professional manner. As a privately held company, WEBB does not typically provide financial information although we can provide certain information upon request.

***WEBB does not have any conditions that may impede our ability to complete projects.***

### Service Departments

- Water Resources
- Landscape Architecture
- Construction Management and Inspection
- Land Development Planning & Entitlement
- Land Development Engineering
- Traffic and Transportation Engineering
- Environmental Services
- Land Survey and Mapping Services
- Geographic Information Systems

### Owner and Principal Parties

- Matthew Webb, PE, TE, LS - President/CEO
- Scott Webb - Senior Vice President
- Steve Webb - Director of Risk Management
- Brian Knoll, PE - Chief Operations Officer
- Kevin W.M. Ferguson - Chief Development Officer
- Scott Hildebrandt, PE - Chief Strategy Officer
- Todd Smith - Chief Financial Officer
- Sam Gershon, RCE - Senior Vice President
- Bruce Davis, PE - Senior Vice President
- Dilesh Sheth, PE, TE - Senior Vice President
- Stephanie Standerfer - Vice President
- Jason Ardery, PE, TE, LLS, CPESC, QSD - Vice President
- Joseph Caldwell, PE, CPESC, CPSWQ - Practice Area Leader
- Emily Webb, J.D. - Senior Land Use and Entitlement Specialist

### Firm Specifics

**1945**

Founding Year

**180**

Number of Employees

**60+**

Professional Licenses



### Corporate Headquarters

3788 McCray Street  
Riverside, CA 92506  
951.686.1070



### Murrieta

41870 Kalmia Street #160  
Murrieta, CA 92562  
951.686.1070

## Executive Summary

WEBB is enthusiastic about partnering with the City to deliver high-quality design services for a range of Civil Engineering projects. Our team possesses the necessary technical expertise, resources, knowledge, and, importantly, a commitment to ensuring the timely and budget-friendly completion of your project.

## Firm Background

- Long-standing financially stable civil engineering and planning firm since 1945
- Over 180 associates and the in-house expertise to address all client needs
- Multidisciplinary firm capable of providing all required services

## Experience and References

- Extensive experience with public agencies by assigned team on civil engineering infrastructure projects
- Strive to reach client's goals for each project and responsive to client requests and needs
- Project team is currently providing similar On-Call services for multiple clients
- Recent and current projects of similar scope to the City's project examples
- Superior quality work, integrity, and long-standing client relationships

## Project Team

- Assigned Principal-In-Charge, Brian Knoll, PE, specializes in CIP water, wastewater, and drainage improvements
- Jeff Hart, PE, as Deputy Director of Water Resources providing project oversight for the City's projects
- Shane Bloomfield, PE, as the primary project manager for water and sewer projects as he has implemented many of the City's projects
- Other experienced project managers, as shown in our organizational chart, will be assigned depending on the expertise required by each project
- Key personnel will be available as proposed for the duration of all projects
- Project teams working together on similar projects from our corporate office

## Work Plan

- Understanding overall project objectives and critical success factors and developing a comprehensive scope of services to meet the City's needs
- Quality control embedded in every stage of project development
- Assignment of highly qualified project manager and resources to complete projects

## Project Schedules

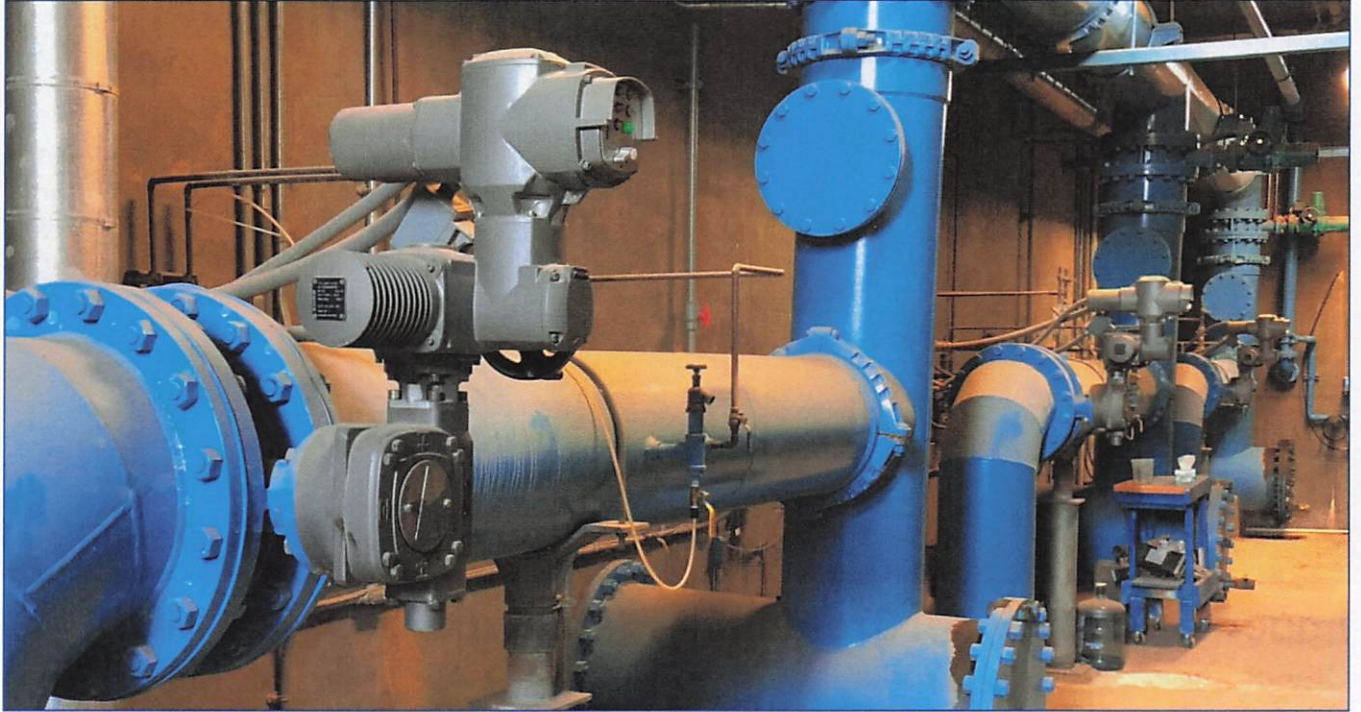
- Determination of project's critical path and allocating resources to complete project on time
- Creating a summary schedule to evaluate cumulative impact to WEBB and City resources
- Close coordination and communication is a fundamental principle to maintaining the project time frame

## Project Experience

Many of WEBB's past project experience have projects that touch on many, if not all, of the aspects of civil engineering field mentioned in the RFP. For example, for the Goetz Road Tank Project, WEBB designed site grading, driveways, parking lots, access roads, street improvements for a deceleration lane, traffic control plans, onsite and offsite water and storm drain, striping plans, slope stabilization, storm drain systems, and construction specifications. We have experience with all aspects of water and sewer facilities including pipelines, pump stations, tanks, sewer lift stations, gravity mains, and treatment facilities.

WEBB also has experience with site work for industrial projects that include driveways, sidewalks, parking lots, access roads, street improvements, striping, traffic signals, WQMP's, SWPPP's, and ADA compliance.

## Related Experience



### Water Master Plan

#### City of Imperial

**Client Contact:** David Dale, PE, PLS, Public Services Director  
City of Imperial - Public Works  
760.355.3336

WEBB prepared the recent 2023 Water Master Plan for the City of Imperial. The City's previous current Water Master Plan was prepared in 2006. The 2006 master plan was not representative of current conditions as it was based upon population projections, land use, and development plans that were very aggressive compared to the reality experienced after the 2008 housing crisis. Since then, many development projects have been delayed and/or canceled. In addition, many developments have revised their densities to adjust for changing market conditions. This Water Master Plan is a valuable tool to assist with budgeting for future maintenance, replacement, and improvement projects for the City's water facilities. The 2023 WMP will not only aid in financial planning but will help prioritize facility improvements to meet existing and projected demands. WEBB's scope of work included the following tasks:

Key components of this Water Master Plan update include, but are not limited to:

- Inventory of Existing Facilities
- Service Area Evaluation
- Design Criteria
- Model Development
- Hydraulic Analysis





## Imperial Wastewater Treatment Plant Expansion (2.4 MGD)

City of Imperial - Public Works

Client Contact: Christopher Kemp, Chief Wastewater Operator

City of Imperial - Public Works

760.457.5772

WEBB had responsibility for all aspects of the project including preliminary engineering, environmental documentation and compliance, survey and mapping, final facility design, bidding, construction management, inspection, and NPDES permitting. The upgrades to the City's existing facility included the design of new headworks screening units, addition of an activated sludge extended aeration basin, MBR treatment system, upgraded UV disinfection system, sludge dewatering screw presses, flow monitoring and sampling, electrical and controls upgrades, and all appurtenant process and yard piping.

### Project Highlights

- Existing operating facility, structures, and piping
- Evaluate existing facilities and prepare facility master plan
- Upgrade/expand headworks
- Upgrade/expand biological treatment (MBR)
- New UV disinfection
- Screw presses
- Funding assistance
- CEQA



## Imperial Wastewater Treatment Plant Expansion (1.0 MGD)

City of Imperial - Public Works

**Client Contact:** Christopher Kemp, Chief Wastewater Operator

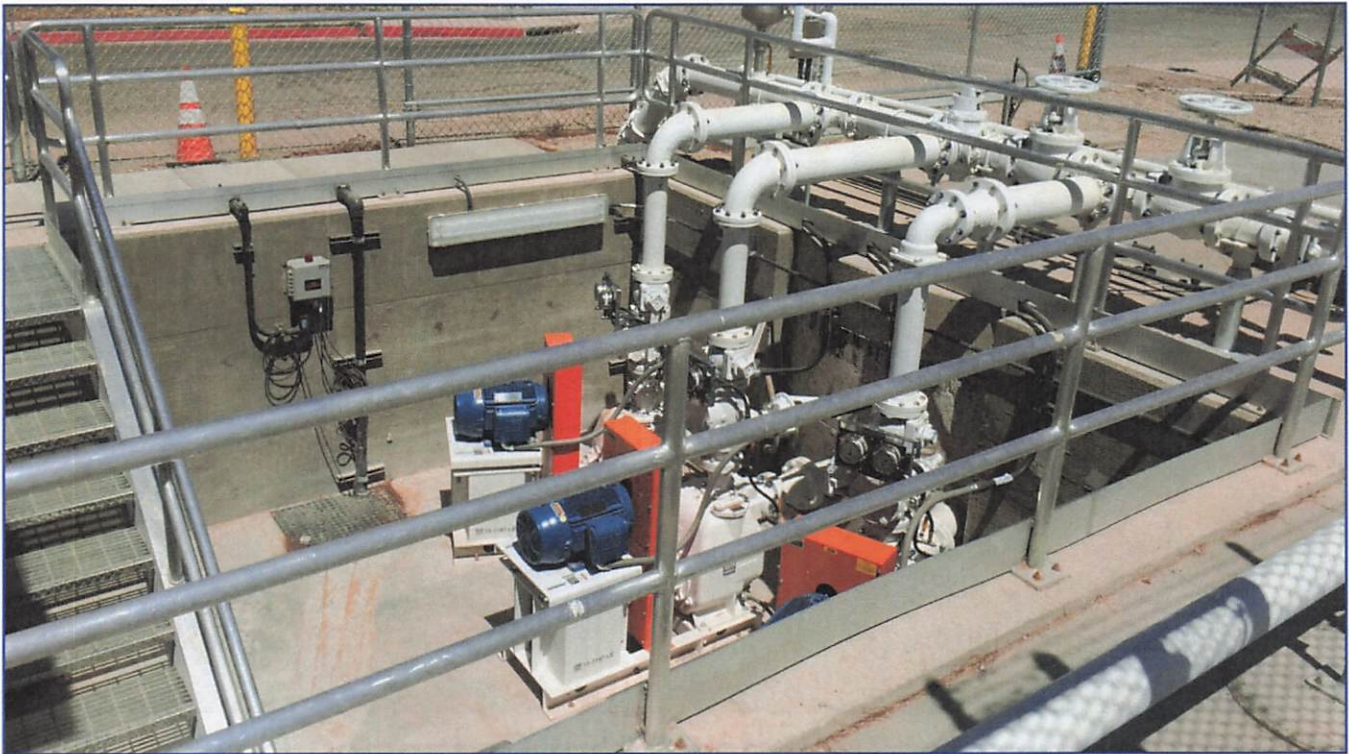
City of Imperial - Public Works

760.457.5772

WEBB had responsibility for all aspects of the project including preliminary engineering, environmental documentation and compliance, survey and mapping, final facility design, bidding, construction management, inspection, and NPDES permitting. The upgrades to the City's existing facility included the design of new headworks screening units, addition of an activated sludge extended aeration basin (Biolac), reinforced concrete secondary clarifiers, blower building and blower units, upgraded UV disinfection system (Trojan 3000 Plus), sludge drying beds and sludge staging area, flow monitoring and sampling, electrical and controls upgrades, and all appurtenant process and yard piping.

### Project Highlights

- Existing operating facility, structures, and piping
- Evaluate existing facilities and prepare facility master plan
- Upgrade/expand headworks
- Upgrade/expand biological treatment
- Add secondary clarifier
- New UV disinfection
- Add dewatering drying beds
- Funding assistance
- CEQA
- Biolac Treatment System



## **“B” Street Lift Station Upgrades**

City of Imperial - Public Works

Client Contact: Christopher Kemp, Chief Wastewater Operator

City of Imperial - Public Works

760.457.5772

The “B” Street Lift Station was originally constructed as a submersible pump lift station with pumps 20-FT below the ground surface. These pumps consistently clogged and required excessive maintenance. The lift station was also a constant odor problem for the City. This project constructed a dry pit adjacent to the existing wet well with new non-clog Gorman-Rupp sewage pumps. In addition, the project included oxygenation equipment to reduce odors, new shade structures, and upgraded electrical systems. WEBB also provided construction management and inspections services for this project.

Applicable Issues:

- Wet Well Dry Pit
- Odor Controls
- Bypassing plan of Existing Flow



## WWTP High Services Booster Station

City of Imperial

**Client Contact:** David Dale, PE, PLS, Public Services Director  
City of Imperial - Public Works  
760.355.3336

Due to rapid population growth, the existing booster station was unable to meet the City's maximum day demands. WEBB prepared plans and specifications for a new high service booster station for the City of Imperial. The new facility included four 150-HP (2500-GPM each) pumping units with variable speed drives, pressure controls, sodium hypochlorite feed system, chlorine analyzers, recorders, PLC controls, and complete backup power. The entire pump station and chlorination system was constructed within a new building. WEBB also worked very closely with City Staff to perform construction management and onsite inspection during construction. WEBB was also responsible for preparing the operational descriptions for the programming as well as performing facility validation testing.



## VIP 215 Backbone Infrastructure

### Hillwood Investment Properties

**Client Contact:**  
Kathy Hoffer  
Vice President

Hillwood Investment Properties  
901 Via Piemonte, Suite 175  
Ontario, CA 91764-8503  
United States of America

909.380.7157  
kathy.hoffer@hillwood.com

WEBB provided backbone infrastructure final design and construction management services to the Veterans Industrial Park 215 site located south of Van Buren Boulevard, east of Interstate 215, north of Nandina Avenue, and west of the existing March Air Reserve Base within the March Inland Port Airport/March Joint Powers Authority (March JPA) jurisdiction. The project lasted from 2019 to 2023 and the contract cost was nearly \$2 million, including the development of an industrial warehouse building that is over 2 million SF. WEBB was responsible for backbone infrastructure planning, engineering, processing, coordination of plans between the client, architect, and design team, and processing the plans through local and Federal agencies through the project design and construction phases.

WEBB prepared various improvements plans according to the March JPA and County requirements. The project required constructing Van Buren Boulevard from the Air Museum to Western Way (approximately 6,100-LF) which included street improvements, local drainage, water and sewer pipelines. Van Buren Blvd shares a boundary with the Caltrans I-215 Freeway right-of-way. In addition, the Metropolitan Water District (MWD) has an aqueduct under the proposed Van Buren alignment. The project required close coordination with Caltrans and MWD from planning through construction.

WEBB provided a final design for that portion of the drainage plan through the MDP Lateral B, Stage 5 project based on a conceptual alignment provided by the March JPA and Riverside County Flood Control and Water Conservation District (RCFC&WCD). The project required regulatory permitting for drainage connections. Additionally, the project also required an agreement with MWD and RCFC&WCD. This project included extensive coordination with the March Air Reserve Base, March Joint Powers Authority, and RCFC&WCD on the system design and interim outfall. WEBB's work included CEQA/NEPA coordination, permitting, right-of-way coordination, facility design, construction staging, and construction management.



## Madison Street Improvements from Avenue 50 to 52

City of Indio

**Client Contact:** Tim Wassil, PE,  
Public Works Director  
City of Indio  
100 Civic Center Mall, Indio, 92201  
760.391.4018 / twassil@indio.org

WEBB provided planning, environmental, design, right-of-way acquisition, utility coordination, and construction management and inspection services for the Madison Street Improvement Project. The project is located between Avenue 50 and Avenue 52, a distance of one mile.

Whenever there are mutually shared right-of-ways by multiple agencies (governing or public utility), conflicts arise due to the location of existing utilities (above or below the surface) and the potential conflict with the proposed improvements. It is then essential to determine which agency (utility or governing) has senior/prescriptive rights within the mutually shared right-of-way for possible future financial responsibility. When redesign cannot avoid the conflict, it is critical to establish the chain of title to avoid protracted discussions that will delay the project. WEBB performed research and proved to IID that the City of La Quinta has senior rights. IID accepted shared responsibility of 37 transmission lines, which would have cost the project over \$2 million dollars.



## Goetz Road Tank and Transmission Pipeline

Eastern Municipal Water District

**Client Contact:**  
Greg Kowalski, PE  
Engineering Manager  
Eastern Municipal Water District  
2270 Trumble Road, Perris, CA 92570  
951.928.3777 Ext. 4466 / kowalskg@emwd.org

The WEBB Team is currently providing civil design for the tank project and design engineering for the transmission pipeline project. The project consists of the construction of a 8-MG concrete reservoir and a 5,400-LF 30-inch diameter transmission pipeline to connect an existing 24-inch diameter transmission pipeline to the future Goetz Road Tank site, located in the Cities of Menifee and Perris. The pipeline will be constructed along Thornton Avenue, half of which is improved while the remaining alignment is reserved within a tract development. Careful planning and special details are required for the successful implementation of the pipeline with minimal service interruptions, including additional coordination with the City of Menifee and the City of Perris. Challenges for this project include keeping the elevation of the pipeline below the future Goetz Road Tank inlet/outlet due to the higher elevations at the intersection of Goetz Road and Thornton Avenue than the tank pad and storm drain design to route flows around the proposed tank site to a new regional storm drain interceptor. The WEBB Team is coordinating with the District and other consultants on potholing, CEQA compliance, geotechnical investigation, and corrosion report/design services.



## Various Capital Improvement Projects *(Partial List)*

### Jurupa Community Services District (JCSD)

**Client Contact:**  
 Eddie Rhee, PE  
 Engineering Manager  
 Jurupa Community Services District  
 951.685.7434 Ext. 118  
 erhee@jcsd.us

**Dollar Value of Fee (Design):**  
 Various

**Duration of Services:** Ongoing

**Relationship to Client:**  
 Prime Consultant

**Project Team:**  
 Bruce Davis, PE  
 Brad Sackett, PE  
 Siming Zhang, PE  
 Shane Bloomfield, PE  
 Kris Danielson, PE  
 Sinnaro Yos, PE

#### **Regional Lift Station Upgrades *(Partial List)***

- Multiple Sewer Bypass including a large multi-week bypass
- Concrete repair lining in wet well and dry well
- Pump room upper deck steel modifications
- Concrete encasement of existing wet well columns
- Manhole improvements such as replacement, rehab
- Stainless steel sluice gate in manhole
- Add motorized actuator to influent slide gate
- Replacement monorail and crane hoist
- Steel and DIP piping below and above grade

#### **Waterline Replacement Program - Potable Water**

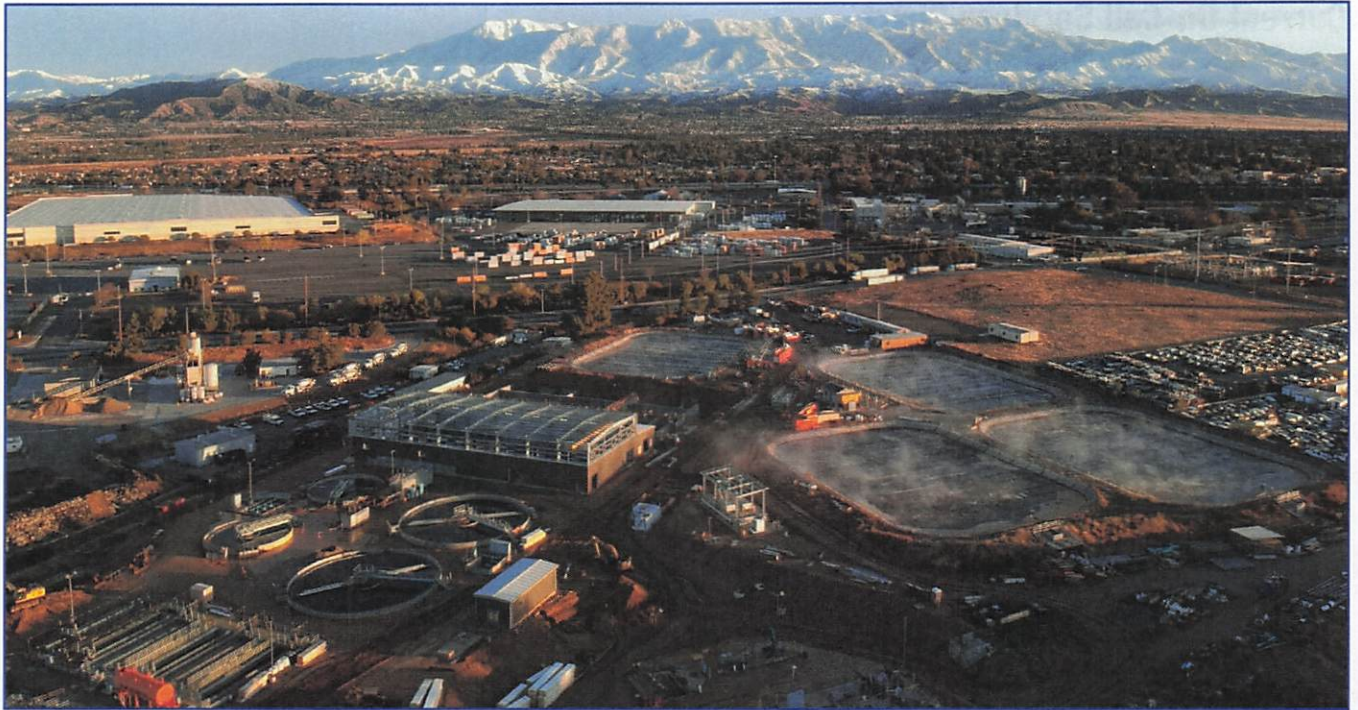
- 45 years of service to the JCSD
- Aggressive waterline replacement program to upgrade existing service since 1986
- 10,000-LF of 8-inch to 12-inch diameter CML/CMC water distribution mains annually
- Preparation of plans and specifications, utility research, and coordination with fire and transportation departments
- Waterlines installed in minimal ROW streets congested with exiting utilities

#### **Sewer Bond Projects**

- Van Buren Bridge Force Main Crossing, 2,400-LF 24-inch diameter Sewer
- Florine Sewer Lift Station, 3,500-LF 10-inch diameter Gravity and Force Main
- Upgrades and Enhancements to Electrical/SCADA at Plant 1
- Regional Force Main to City of Riverside WWTP – 17,600-LF of 24-inch diameter Force Main and 2,200-LF of 27-inch diameter Gravity Sewer
- Pyrite Creek Trunk Sewer, 10,300-LF of 30-inch and 36-inch diameter Sewer Main

#### **Recycled Water System**

- Conceptual Planning and Grant Support
- CEQA Documentation
- Detailed Design of over 30,000-LF of 12-in and 18-in diameter pipeline network parts
- Waterlines installed in minimal ROW streets congested with exiting utilities



## Beaumont Treatment Plant Expansion and Salt Mitigation

City of Beaumont

**Client Contact:**  
Elizabeth Gibbs  
City Manager

City of Beaumont  
550 E 6th Street  
Beaumont, CA 92223

951.769.8520  
egibbs@beaumontca.gov

This project was divided into two parts: 1.) WWTP Upgrade/Expansion and, 2.) the Brineline. WEBB performed overall Program Management Support for the entire project.

### **WWTP Expansion and Upgrade**

The existing WWTP needed to be expanded and upgraded. The WWTP treated over 75% of its permitted capacity and therefore must begin the expansion process. Per the new Regional Water Quality Control Board's updated Basin Plan, the City began reducing TDS being discharged from the plant. The City completed a feasibility study to identify the best way to expand and upgrade the plant. The WWTP upgrades included additional headworks screening, flow equalization, grit removal, fine screens, MBR, reverse osmosis, biosolids dewatering, and drying.

### **Brine Line - Final Design**

Brine disposal was an integral part of this project and was a key driver in the selection of this project. Without a safe, reliable, and cost effective way to dispose of the brine, this project was unable to move forward and compliance with the Basin Plan would have been impossible. The brine pipeline connecting to the Inland Empire Brine Line (IEBL) was determined to be the best option during the feasibility study, due to cost and certainty of operation. The brine line is sized at 12-inches and is approximately 23 miles long. The pipeline begins at the City's WWTP and ends near the City of San Bernardino's WWTP on Waterman Avenue. WEBB also leading the permitting of this facility with Riverside County, San Bernardino County, City of Redlands, City of Loma Linda, and City of San Bernardino.



## Current On-Call Services Chart

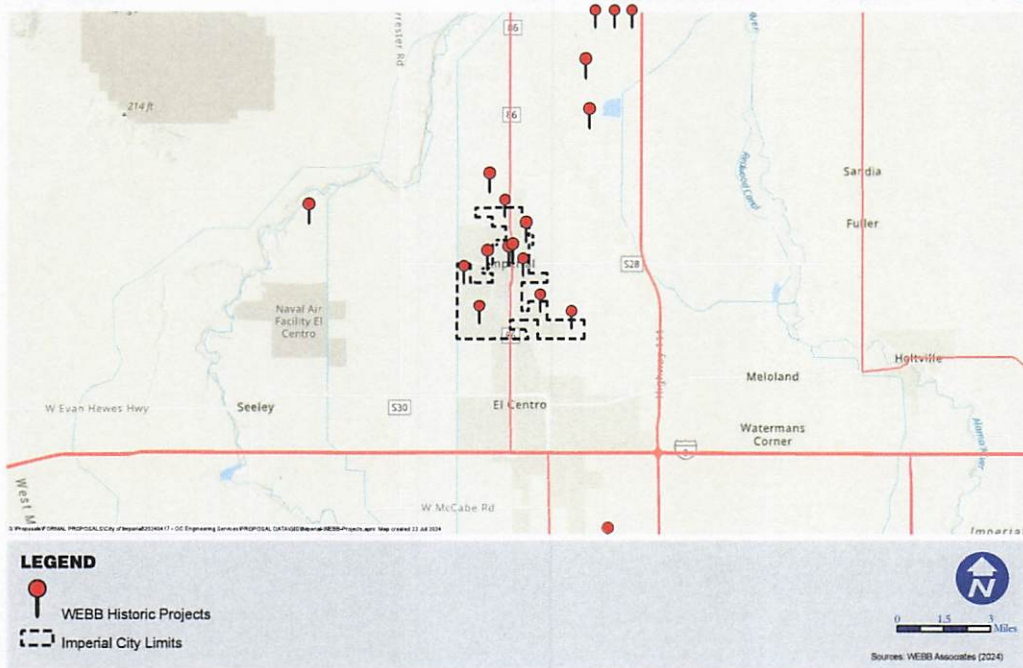
Client / Agency	Services Provided									
	Civil Design	Planning & Environmental	Traffic & Transportation	Construction Management & Inspection	Plan Checking	Land Survey & Mapping	Stormwater Engineering	Grant Writing	GIS Services	Landscape Architecture
City of Banning	X	X	X	X	X	X	X		X	X
City of Beaumont	X	X	X	X		X				X
City of Cathedral City			X							
City of Corona	X			X	X	X				
City of Eastvale		X								
City of Grand Terrace			X	X	X			X		
City of Hemet	X			X		X				
City of Indio	X		X	X		X				X
City of Lake Elsinore			X							
City of Moreno Valley	X									
City of Palm Springs - Public Works	X		X					X		
City of Pomona	X		X	X		X	X		X	
City of Riverside (Multiple Departments)	X	X		X						X
City of Wildomar		X								
Coachella Valley Water District	X	X	X			X	X		X	X
County of Riverside Transportation Department	X		X				X			
County of San Bernardino Special Districts	X	X	X	X	X	X	X		X	X
Eastern Municipal Water District	X	X	X			X	X			X
Elsinore Valley Municipal Water District				X						
Imperial County - Public Works Division	X			X						
Jurupa Community Services District	X	X	X	X	X	X	X		X	X
Riverside County Economic Development Agency	X	X	X	X	X	X	X		X	X
Riverside County Flood Control & Water Conservation District	X			X	X	X	X			
West Valley Water District	X			X		X				

WEBB Historic Projects in City of Imperial (1970 - Ongoing)

ON CALL ENGINEERING SERVICES

FIGURE 1

WEBB HISTORIC PROJECTS



PROJECT LIST (partial)

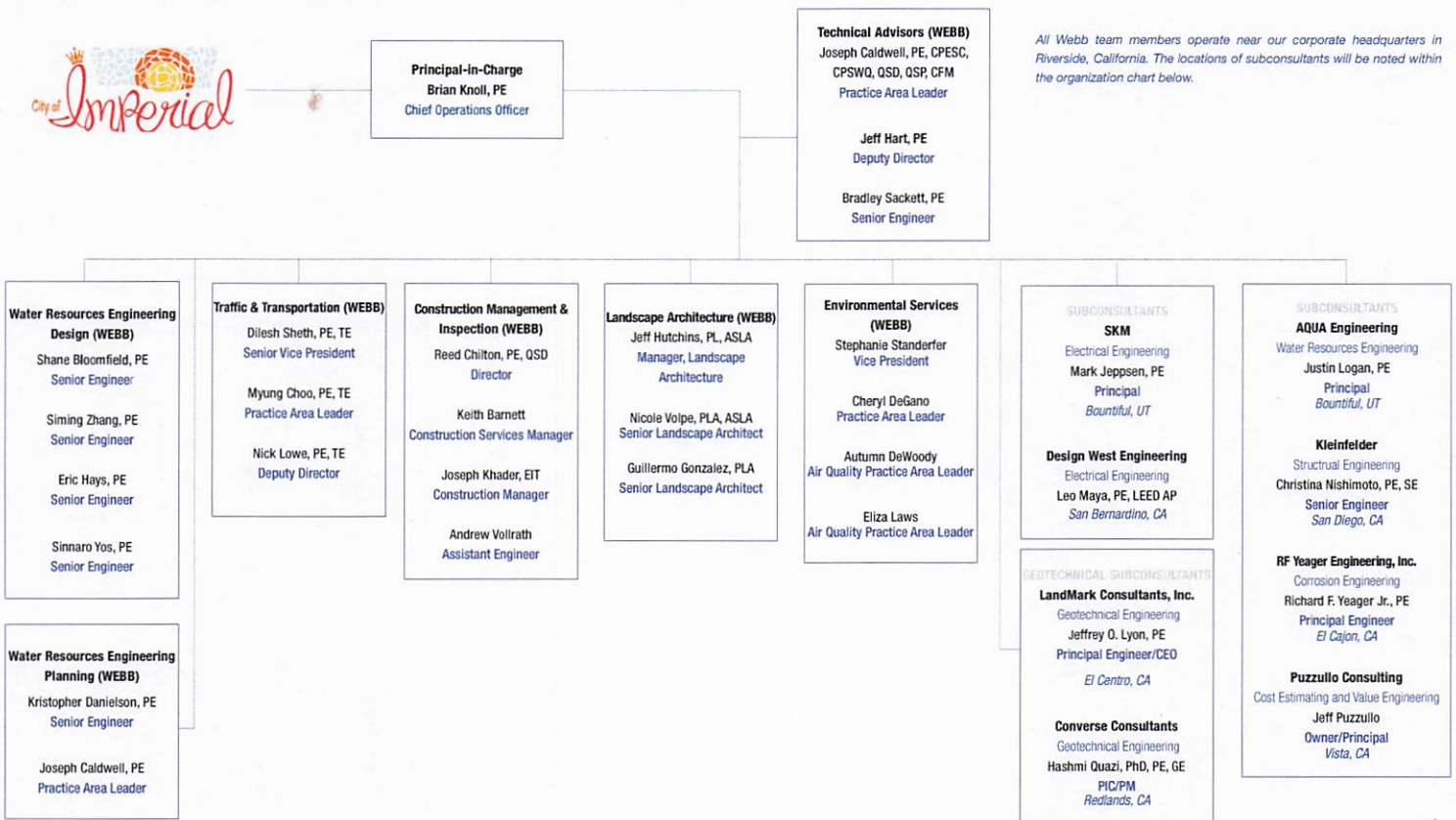
- WWTP Expansion
- WTP High Service Booster
- Aten Road Tank and Booster
- Shop Tank Booster
- B Street Lift Station
- Water Master Plan
- Mesquite Lakes Planning Area
- Rancho Los Lagos Development SAP
- Calipatria WTP Expansion
- Niland Tanks
- Hwy 86 Waterline Crossing
- 15th Street Water and Sewer Crossing
- Aten Lift Station
- Development Condition Reports
- WTP Sedimentation Basin Upgrades
- Disinfection Byproducts Reduction Project
- WTP Filter Piping Replacement



***This page is intentionally left blank***

## Organizational Chart

Your assigned WEBB Team will consist of senior-level professionals who will perform the required tasks for this contract. By taking this hands-on approach, an experienced professional will always have in-depth and intimate knowledge of each project. This improves overall project management, reduces the opportunity for costly mistakes and delays, and allows our staff to provide very effective and efficient service to the City. **Key personnel will be available to the extent proposed for the duration of the project and WEBB acknowledges that no person designated as "key" to the project shall be removed or replaced without written consent of the City.**



***This page is intentionally left blank***

## Section 3. Key Personnel



### Brian Knoll, PE

Chief Operations Officer

Brian Knoll, PE, is WEBB's Chief Operations Officer. Brian has been responsible for the design and direction of capital improvement projects throughout southern California. Brian's expertise lies in planning, design, and construction oversight of water and wastewater facilities. Brian has been involved in numerous large multi-discipline water and wastewater projects including the City of Riverside's 26-MGD expansion of their water quality control plant, the City of Beaumont's advanced water treatment facility and brine line, the 14-MGD expansion of the Western Riverside Wastewater Treatment Plant, and the 6-MGD expansion of the Calipatria Water Treatment Plant. He has worked extensively with the City of Imperial, Western Municipal Water District, Golden State Water Company, the City of Corona, Crestline Lake Arrowhead Water Agency, Eastern Municipal Water District, the City of Riverside, and WRCRWA. Brian has also worked closely with other engineering partners such as CDM Smith, Black & Veatch, and CH2M Hill. His macro style in water resources leadership coupled with a practical approach, enhances Brian's standing within the firm and the industry.

#### REGISTRATIONS

Registered Civil Engineer C 65690 (CA)  
Registered Civil Engineer C 42407 (AZ)

#### EDUCATION

MS, Civil Engineering  
Brigham Young University  
BS, Civil Engineering  
Brigham Young University

#### AFFILIATIONS

American Water Works Association (AWWA)  
American Society of Civil Engineers (ASCE)  
Water Environment Federation (WEF)  
Inland County Water Association (ICWA)

**Imperial Wastewater Treatment Plant Expansion (1.0 MGD)** - The purpose of this project was to provide additional wastewater treatment capacity for the City and upgrade the City's disinfection system. Responsible for all aspects of the project including preliminary engineering, environmental documentation and compliance, survey and mapping, final facility design, bidding, construction management, inspection, and NPDES permitting. The upgrades to the City's existing facility included the design of new headworks screening units, addition of an activated sludge extended aeration basin, reinforced concrete secondary clarifiers, blower building and blower units, upgraded UV disinfection system, sludge drying beds and sludge staging area, flow monitoring and sampling, electrical and controls upgrades, and all appurtenant process and yard piping.

**WRCWRA Wastewater Treatment Plant** - The expansion project included evaluating alternatives to provide additional flow and biological capacity while reducing the overall cost of treatment. WEBB's design includes primary, secondary, and tertiary treatment along with disinfection and solids handling.

**WRF-1 Centrifuge Replacement Expansion Phase 1** - The purpose of this project was to improve biosolids dewatering performance at Corona's WRF #1. This is accomplished by replacing one of the existing belt presses with a new centrifuge.

**PVRWRF Vector Truck Dump Station Design, Eastern Municipal Water District** - The project includes preliminary and final design of a complete Vector Truck dump station to include a roadway system for safe and easy ingress and egress, maneuvering space, containment berms and slopes, dumping area to accommodate up to six Vector Trucks simultaneously, a connection to sewer for drainage, accessible wash down water, and an ergonomically friendly cleaning, effective and efficient solids handling area, a storage shed for lime, lighting, and vector control strategies.

**WRP 10 Headworks Condition Assessment and Alternatives, Coachella Valley Water District** - Prepared the Condition Assessment and Recommendation Report for the District's WRP 10 Headworks. The result of report and coordination with District personnel was the recommendation to replace the existing Influent Pump Station, Headworks Screens and associated facilities.



## Jeff Hart, PE

Deputy Director, Water Resources

As Deputy Director of the Water Resources Department at WEBB, Jeff Hart uses his 25 years of experience in public works to support the execution of all water resources projects. He is also responsible for assigning project managers to each project and ensuring all project obligations are met with the highest standard. Jeff has previously managed and implemented over \$800M of Capital Improvement Projects. He has split his years of experience working with both public and private sector clients; serving as City Engineer, Public Works Director, and Floodplain Manager for the public sector, and Director of Engineering and Deputy Director of Water Resources for the private sector. Jeff is well versed having acted as a representative across various committees, councils, boards, and commissions.

### REGISTRATIONS

Registered Civil Engineer C 70910 (CA)  
Registered Civil Engineer C 19069 (NV)

### EDUCATION

BS, General Civil Engineering  
California Polytechnic Institute, Pomona

### CERTIFICATIONS/TRAINING

Qualified SWPPP Developer (QSD)  
Qualified SWPPP Practitioner (QSP)

Jeff has served as project manager, oversight, and implementation of several infrastructure projects including domestic water, wastewater, recycled water, drainage, transportation, and land development throughout Southern California and Nevada.

As a Principal Engineer for the Coachella Valley Water District he oversaw the initial Chromium-6 compliance study, which was ultimately heading to the largest public works construction project ever in the Coachella Valley (\$400M) prior to a judgement invalidating the new MCL in 2017. Recent water resource projects include the implementation of a \$100M waste water treatment plant upgrade for the City of Beaumont, including the ability to produce recycled water via RO and the construction of a 22 mile brine line.

Along with experience in regional infrastructure projects, Jeff has extensive knowledge and experience with planning, entitlement, development (residential, commercial, and industrial), and capital improvement development and budgeting. His extensive experience translates to an understanding of all steps required to successfully complete a project efficiently and on schedule.

- 
- Perris 4th and 7th Street Lift Stations, Eastern Municipal Water District
  - Armstrong Booster Station Upgrade, Jurupa Community Services District
  - Mesa Lift Station and 16-inch Force Main Project, City of Beaumont
  - PLC Upgrade Project, nine Lift Stations, City of Beaumont
  - Well 25, Rubidoux Community Services District
  - Water and Sewer Evaluation, Highland Fairview
  - 2021 Wastewater Master Plan, City of Beaumont
  - Backbone Feasibility Study, San Geronio Pass Water Agency
  - Water & Sewer Evaluation, Highland Fairview



## Shane Bloomfield, PE

Senior Engineer

Shane Bloomfield, PE, is a Senior Engineer with WEBB's Water Resources Department. Shane specializes in the design of public works projects consisting of major pumping plants, groundwater pumping wells, sewer collection system design, wet well rehabilitation, water distribution system design, wastewater treatment plant design, and hydraulic system modeling using various computer models. He has engineering design responsibilities for several projects for public works agency clients including the City of Ontario, City of Riverside, Jurupa Community Services District, Eastern Municipal Water District, and Crestline-Lake Arrowhead Water Agency.

### REGISTRATIONS

Registered Civil Engineer C 77435 (CA)

### EDUCATION

BS, Geology/Hydrology'  
Brigham Young University  
MS, Environmental Science & Engineering  
Colorado School of Mines

### AFFILIATIONS

National Groundwater Association (NGWA)

### Replacement of Two Lift Station Pumps - Gateway of the Americas, Sewer Lift

**Station No. 2, Imperial County Department of Public Works** - Shane served as the Project Manager for the replacement of two 5-hp submersible sewage pumping units for ICDPW's Lift Station No. 2. Project specifications included the replacements of equipment and pump appurtenances systems, pump guide rail system (to support three pumps), level control system, and all hardware inside the wet well, replacement of motor control center, and electrical wiring.

### Claypool Lift Station and Force Main, City of Imperial (City) - Shane served as a

Project Engineer for the replacement of the Claypool Lift Station and new associated force main. The City was experiencing reduced pumping capabilities in a damaged portion of force main that required the replacement of an existing pump station and the installation of a new force main. The project included the removal of the existing pump station, installation of two new pumps with controls, and the installation of 3,100-LF of 8-inch diameter PVC force main.

### Lakeside Lift Station, Jurupa Community Services District (District) - Shane

served as a Project manager for the recommissioning of the Lakeside Lift Station. The Lakeside Lift Station and force main was decommissioned by the District when the Indian Hills Wastewater Reclamation Plant "Plant 2" was abandoned. The lift station had an 8-inch diameter overflow connection within its wet well structure. Wastewater within the wet well surcharged and flowed into the overflow connection which outlet into a 12-inch diameter gravity main on Limonite Avenue, also known as the "Plant 2 Overflow Line". Final evaluation indicated re-commissioning the station was feasible and cost effective. The design project consisted of preparing plans and specifications to re-commission the sewer lift station by removing the existing mechanical and electrical equipment and replace it with new equipment, including a new electrical service and vactor truck turnout.

### Firehouse Sewer Lift Station, Olivenhain Municipal Water District (District) -

Shane served as Project Engineer for the District's project. The existing Firehouse Lift Station was constructed as a below grade packaged lift station within a steel enclosure. The enclosure was failing and also represented a safety hazard for operators due to the small exit. The existing control building was also in disrepair with a leaking roof. This project included the construction of a new dry pit, with improved access, new 750 GPM pumping units, new control building, bridge crane for pump removal, and miscellaneous site improvements. Our work also included preparation of a sewer bypass plan to allow uninterrupted service during construction.





## **Bradley A. Sackett, PE**

Senior Engineer

Brad Sackett, PE, is a Senior Engineer and Project Manager with WEBB's Water Resources Department. Brad specializes in assisting major public agencies with a wide variety of water resource projects. Clients seek his expertise with pumping facilities, water pipeline design, gravity sewer main design, water and sewer system master plans, hydraulic modeling analysis, and sewer resource plans for Specific Plan Environmental Impact Reports (EIRs), among other projects.

Brad has been instrumental in assisting clients with in-house projects, while representing these agencies with their constituents as an on-site consultant. Throughout Brad's career he has been intricately involved in the design, management, and construction support of projects for such clients as Eastern Municipal Water District (EMWD), Western Municipal Water District (WMWD), and the cities of Riverside and St. Helena, to name a few.

His detailed approach ensures each project integrates flawlessly into master plan requirements from concept through construction. He specializes in operations take-over and integration of systems with a focus on cost effective and efficient transitions.

### **REGISTRATIONS**

Registered Civil Engineer C 65862 (CA)

### **EDUCATION**

BS, Chemical Engineering  
Massachusetts Institute of Technology

### **AFFILIATIONS**

American Water Works Association (AWWA)

---

**Recycled Water System Preliminary Design Report, Jurupa Community Services District (District)** - Brad served as Assistant Project Manager for the WEBB Team that completed the Preliminary Design Report for the District's proposed recycled water system to convey recycled water from the WRCRWA's treatment plant to existing parks, schools, street landscaping throughout the City of Eastvale and connect to an existing system that serves some existing irrigation customers within Area B located in the City of Jurupa Valley.

The proposed system will serve recycled water for irrigation to various parks, schools and landscaped medians within the City of Eastvale. The pipelines will vary in size from 24-inch diameter for the largest transmission pipeline down to 8-inch diameter pipelines for the distribution pipelines, totaling approximately 54,900-LF. This system will have the potential to serve nine parks, seven schools and approximately 19 median landscape meters. The proposed pump station will be located at the WRCRWA's wastewater treatment plant in Eastvale. As part of the recent upgrade at the plant, initial planning and preliminary design were completed for the future recycled water pump station for the District..

**Redlands and Hemlock Booster Station, Eastern Municipal Water District** - WEBB provided preliminary and final design engineering services for the replacement of the District's 1,827 GPM Redlands and Hemlock (previously Ironwood) Booster Pumping Stations (BPS) with a new 3,000-GPM Redlands and Hemlock BPS located in the City of Moreno Valley. The existing, partially below-grade facility reached its useful life and was creating a variety of operational and maintenance challenges. The project consisted of preliminary design, facilities site analysis, property acquisition support, project management, survey, geotechnical study, electrical study and coordination, SCE plan of service, system hydraulic

## **Bradley A. Sackett, PE**

Senior Engineer

evaluation, CEQA support, operational control strategy, preparation of design contract documents (plans and specifications), cost estimates, and bidding assistance. The project also included the preparation of bid documents for the abandonment and demolition of the existing facility.

**O'Ferrell Street Booster Station, Eastern Municipal Water District** - Brad served as the Project Manager for the planning and design of this 1,000 gallon-per-minute potable water pump station which ultimately included two 500 gallons-per-minute vertical turbine pumps with a 500 gallons-per-minute standby pump. WEBB's services included site acquisition, metering, and design of reverse flow control valves, a masonry block building, and an emergency generator. Brad and the WEBB Team also assisted with site improvements including paving, a block wall and gates suction and discharge pipelines, an access road, and demolition of the existing booster station. WEBB also provided all environmental services for a complete Initial Study/Mitigated Negative Declaration.

**Vista Ellis Improvement Project – Eastern Municipal Water District** - Brad served as Project Manager for the Vista Ellis Improvement Project which includes a 5,600 GPM booster pump station, a 5.63-MG steel tank, and over 23,000-LF of 18-inch and 24-inch diameter transmission pipeline connecting the facilities. WEBB was responsible for hydraulic modeling, site selection of the booster station and storage tank, preliminary design, CEQA analysis, and the final design of all phases. The proposed pipeline is located within the City of Menifee and the County of Riverside public right-of-way and an easement at RCFC&WCD Channel. The project allows the District to add storage to the 1,698-FT Pressure Zone and convey adequate water supplies to the 1,815-FT Pressure Zone to balance filling the Craig and Vista tanks to address water quality and hydraulic issues within the current system.

**Hamner Trunk Sewer Project, Jurupa Community Services District** - Brad served as the Project Manager for the Hamner Avenue Trunk Sewer Project. WEBB worked on the final design for a deep (24+ FT) 12-inch diameter gravity sewer main within the Hamner Avenue right-of-way from Celebration Drive to 1,400-FT south of 58th Street. The alignment of the proposed sewer main will parallel the proposed CDA product water pipeline in Hamner Avenue. The proposed sewer main is located within the City of Eastvale public right-of-way and a private easement. The project allows JCSD to convey existing domestic sewage to their regional trunk sewer facilities for treatment at the WRCRWA wastewater treatment facility, eliminating a connection to the SARI pipeline. The existing right-of-way is crowded with numerous existing utilities including the 42-inch diameter SARI pipeline, 60-inch storm drain, 30-inch JCSD potable water pipeline, 24-inch diameter Norco water pipeline, 16-inch diameter gas line, an abandoned sewer force main, two fiber optic cables, an Edison electric line, several other smaller dry utilities, and two traffic signals.

**Hamner/Detroit Product Water Pipeline, Chino Basin Desalter Authority** - Brad served as the Project Manager for the Hamner Avenue Trunk Sewer Project. WEBB worked on the final design for a deep (24+ FT) 12-inch diameter gravity sewer main within the Hamner Avenue right-of-way from Celebration Drive to 1,400-FT south of 58th Street. The alignment of the proposed sewer main will parallel the proposed CDA product water pipeline in Hamner Avenue. The proposed sewer main is located within the City of Eastvale public right-of-way and a private easement. The project allows Jurupa Community Sewer District to convey existing domestic sewage to their regional trunk sewer facilities for treatment at the WRCRWA Wastewater Treatment Facility, eliminating a connection to the SARI pipeline. The existing right-of-way is crowded with numerous existing utilities including the 42-inch diameter SARI pipeline, 60-inch storm drain, 30-inch JCSD potable water pipeline, 24-inch diameter Norco water pipeline, 16-inch diameter gas line, an abandoned sewer force main, two fiber optic cables, an Edison electric line, several other smaller dry utilities, and two traffic signals.



## Joseph Caldwell, PE, CPESC, CPSWQ, QSD, QSP, CFM

Water Resources Practice Leader

Joseph Caldwell, PE, is the Practice Leader of WEBB's Water Resources Department. As the Water Resource's Practice Leader, Joseph is responsible for training, skill development, and the quality assurance/quality control program. He personally leads the QA/QC reviews for all submittals and coordinates with project managers and engineers to ensure the appropriate reviews are completed as projects proceed to final design. Joseph focuses on the development of master drainage plans, the design of backbone drainage infrastructure, and the design of water quality systems for flood control projects throughout the region. A Certified Professional in Erosion and Sediment Control and Storm Water Quality, Joseph is a specialist in water quality and environmental compliance and an expert in hydrology and hydraulics.

Joseph's experience includes the design of regional flood control basins, a flood control levee, master drainage plans, and the design and construction of several miles of backbone drainage infrastructure. He has also hydrologically and hydraulically modeled the San Jacinto River from Railroad Canyon to the existing Army Corps levee in the City of San Jacinto. Joseph's extensive knowledge of local agencies' design standards and procedures, and effective working relationships with agency staff, enable him to expedite projects through completion.

### REGISTRATIONS

Registered Civil Engineer C 67239 (CA)  
Registered Civil Engineer C 030017 (NV)  
Registered Civil Engineer C 76114 (AZ)  
Certified Professional in Erosion and Sediment Control (CPESC) 5311  
Certified Professional in Stormwater Quality (CPSWQ) 544

### EDUCATION

MS, Civil Engineering  
Brigham Young University  
BS, Civil Engineering  
Brigham Young University

### CERTIFICATIONS

Qualified SWPPP Developer  
(QSD) 00076  
Qualified SWPPP Practitioner  
(QSP) 00076  
Association of State Floodplain Managers,  
Inc. (ASFPM)  
Certified Floodplain Manager (CFM)

### AFFILIATIONS

American Society of Civil Engineers (ASCE)  
American Public Works Association (APWA)  
California Storm Water Quality Association  
(CASQA)  
Floodplain Management Association (FMA)

**San Jacinto River Stage 3 Master Drainage Plan, Riverside County Flood Control & Water Conservation District (District)** - Joseph served as Project Manager for the WEBB Team responsible for reviewing the current hydrological model, analyzing potential alternative models, and working with the District to decide the best option based for the current Master Drainage Plan. This project consisted of preparation of conceptual drawings for the Master Plan addressing all key elements such as floodplain management, flood control features, environmental preservation, development opportunities, effects on regional infrastructure, right-of-way requirements, and order of magnitude cost. WEBB worked directly with the District to prepare the planning study, coordinated with all stakeholders, and presented all findings to the Advisory Board with recommendations for the next steps (i.e., MSHCP compliance, CEQA strategy, land development constraints, and floodplain management). WEBB is currently working on the final MDP and EIR for the District.

**Heacock Channel Design Project, March Joint Powers Authority** - Joseph served as the Project Manager for Phase 3 of the Heacock Channel Design Project for the March Joint Powers Authority. The project included the preparation of final improvement plans, traffic control plans, and a hydrology and hydraulic report for approximately 3,600-LF of the channel. The project extends from Lateral A of the Perris Valley Storm Drain north along Heacock Avenue to the southern end of an existing land fill. WEBB's services also included project management and coordination throughout the duration of the project including attendance at project design team meetings, quality control services, and all other processing of improvement for necessary project approvals.

## **Joseph Caldwell, PE, CPESC, CPSWQ, QSD, QSP, CFM**

Water Resources Practice Leader

**Hemet MDP Line C, Stage 4, County of Riverside Flood Control and Water Conservation District** - Joseph was the Project Manager for the Hemet MDP Line C, Stage 4 Project. The extension of the Hemet MDP Line C was an important component to provide surface flooding relief and flood protection of a predominately developed portion of the City of Hemet. The extension of the Hemet MDP Line C was an important component to provide surface flooding relief and flood protection of a predominately developed portion of the City of Hemet. This segment of the Master Plan Facility represents the middle one third of the entire Line C System. The critical component of this project was implementing a master planned facility in a highly urbanized area of the City extremely constrained by multiple utilities. WEBB completed a Preliminary Design Report that outlined the most feasible alignment for this facility. WEBB is currently preparing final design plans and specifications for this backbone drainage facility.

**Wildwood Creek Basin, City of Yucaipa** - Joseph served as Project Manager for design of a multi-purpose watershed basin in Wildwood Creek in the City of Yucaipa. WEBB provided engineering services that accommodated the critical needs of the City. This project is located in the middle of a major watercourse. The watershed tributary to the project is over 4,000 acres and the creek is designated on the Flood Insurance Rate Map by FEMA. The City's goal was to reduce the peak flow utilizing a series of detention basins that in turn will reduce peak flow rates downstream and reduce the burden on those downstream facilities. This reduction in peak flow rates was accomplished through the removal of sediment/debris load and the attenuation of peak flooding through the use of the proposed basins. In addition to providing flood control benefits, this project also provided certain environmental and water quality benefits. To do this, the flood control facilities were developed in such a manner so the construction preserves riparian vegetation, where possible, and implements other measures for environmental and water quality impacts. In order to accomplish this, WEBB reviewed the conceptual design and provided a more precise analysis of the level of flood control protection the basins will provide. WEBB also prepared detailed hydrologic, hydraulic, and sediment transport models to determine peak runoff rates, flood volume, and debris load.

**North Indio Regional Flood Control Channel Project, Coachella Valley Water District** - Joseph is the Technical Lead for the North Indio Regional Flood Control Channel Project which is a key component of the CVWD flood protection mission in the Coachella Valley. The project will complete the link between existing flood control facilities in the north Indio area, providing increased flood protection for the region. The project consists of over three miles of concrete lined trapezoidal and rectangular channels, including numerous culvert crossings of existing and future streets. To date, WEBB has prepared the hydraulic analysis, preliminary design, and environmental documentation for the project. WEBB is currently in the process of preparing the final design plans, specifications, and estimates. WEBB is also responsible for preparing the CLOMR and providing public outreach and right-of-way acquisition services.

**University Wash Channel, Riverside County Flood Control & Water Conservation District** - Joseph was Technical Lead for the University Wash Storm Drain Project including the planning, analysis, and design of a large diameter master plan storm drain that connects existing upstream and downstream facilities together. This project was unique in that the 2,450 LF - 90-inch RCP required for this project had to be designed to maneuver its way through a developed industrial corridor of the City. Key to this project was the coordination with local businesses to ensure construction of the storm drain minimized impacts to business operations.

**Bedford Wash Channel, Riverside County Flood Control and Water Conservation District** - Joseph is the Project Manager for the Bedford Wash Channel upstream on the McMillan Property. Services provided included finalizing the 30% design, preparation of all necessary studies, and designs for the final construction drawings, preparation and processing of the Cooperative Agreement and Agency approvals as well as providing on-going coordination with the overall project team during the design of the overall project and with the environmental consultant to assist with obtaining any regulatory permits associated with the channel construction. WEBB provided three iterations of channel design from the point the project was secured, when it was a completely lined concrete channel. Through WEBB's recommendation, the project stakeholders strategically selected to move toward transitioning the channel to a soft bottom.



## Siming Zhang, PE

Senior Engineer

Siming Zhang, PE, is a Senior Engineer with WEBB's Water Resources Department. Siming assists clients in managing and designing a wide array of public works projects including water storage reservoirs, water transmission pipelines and booster stations, major trunk sewer mains, sewer collection pipelines and sewer lift stations, and water booster stations.

As a Project Manager who leads a team of engineers and designers, Siming has been a key advisor on many important matters that help determine the success of land developments including master drainage plans, hydrology/hydraulic studies, storm drain designs, Conditional Letters of Map Revision (CLOMR), and Letters of Map Revision (LOMR). Clients depend on Siming's ability to fulfill a broad range of project goals including assistance with engineering design, bidding, construction administration, coordination with local agencies, sewer and water master facility plans, feasibility studies, construction drawings and specifications, construction and project cost estimates, and coordination with government agencies to secure approvals and permits.

Siming's responsibilities entail engineering design, assistance during bidding, construction administration, coordination with local agencies, sewer and water master facility plans, feasibility studies, construction drawings and specifications, construction and project cost estimates, and coordination with various government agencies to obtain the applicable approvals and permits. His contract administration responsibilities included review of bid proposals, contractor submittal drawings, inspection reports, and process requests for information, requests for change order, and periodic site visits to monitor construction.

Among his contract administration responsibilities, Siming has reviewed bid proposals, contractor submittal drawings, and inspection reports. He also processes requests for information, coordinates change order requests, partial pay estimates, weekly working statements and notices of completion, and makes periodic site visits to monitor construction.

---

### **Capital Improvement Waterline Replacement Program, City of Ontario -**

Siming served as the Project Manager in the design and construction of the City's capital improvement programs. As the Project Manager, Siming was fully involved in updating Ontario's local waterline distribution systems throughout the City. The project included 4,300-LF of 12-inch diameter pipelines and 5,000-LF of 16-inch diameter pipelines. Siming managed utility research, local and state agency coordination, and coordination with utility agencies within the project limits. After successful completion of the FY 2013-14, FY 2014-15, 8,460-LF of 8-inch pipeline, Siming served as the Project Manager with similar tasks to the City's infrastructure updates for the 2015-16.

#### **REGISTRATIONS**

Registered Civil Engineer C 60156 (CA)

#### **EDUCATION**

BS, Civil Engineering  
Tsinghua University, China  
MS, Civil Engineering  
University of Southern California

#### **AFFILIATIONS**

American Society of Civil Engineers (ASCE)  
American Water Works Association (AWWA)

## Siming Zhang, PE

Senior Engineer

**Waterline Replacement, Jurupa Community Services District** - Siming served as the Project Manager for the replacement of several water mains to better serve customers of the District. He handled a wide range of work on the projects including alignment and topographical land surveys, base mapping, utility research coordination, field verification, engineer's estimates and bidding documentations, and coordination with local agencies. He also helped the WEBB Team provide a construction survey.

**Area B Non-Potable Waterline, Jurupa Community Services District** - Siming served as Project Manager for this project that expands the District's use of non-potable water for irrigation purposes to offset the District's need for potable water. The District considered several possible non-potable water sources. This project consisted of the construction of approximately 12,000-LF of 10-inch diameter and 16-inch diameter transmission pipeline in Bellegrave Avenue between Hamner Avenue and Etiwanda Avenue. This pipe is part of the backbone transmission pipeline system in addition to other components.

**870 PZ Water Transmission Pipeline, Jurupa Community Services District** - Siming serves as the Project Manager for a series of pipeline improvements to increase efficiency for customers of the District. The project, in the City of Jurupa Valley in northwestern Riverside County, includes the construction of two groundwater wells, ancillary equipment, and approximately 12,800-LF of potable water transmission pipelines which will connect to the District's 870-FT Pressure Zone and 2,100-LF storm drain pipeline. WEBB's services include determining horizontal control for the proposed alignment, preparing a survey control map, locating and detailing existing storm drain structures, determining the location of field potholes, and preparing design plans and profile drawings.

**Grace Street (D to H Avenue) Pipeline Project, Golden State Water Company** - Siming currently serves as the Project Manager for this project, consisting of replacing approximately 2,700-LF of 12-inch diameter steel pipeline. This project consists of coordination with the Barstow Unified School District on possible future development and approval of the proposed pipeline, obtaining preliminary title reports of the parcel, field survey and establishing parcel boundary line, CEQA documentation and compliance, and legal description/plat and land acquisition for easement.

**Royal Avenue Pipeline Replacement, Golden State Water Company** - Siming served as the Project Manager for this project, consisting of replacing approximately 200-LF of 8-inch diameter steel pipeline. The replaced pipeline runs across the Royal Avenue Bridge with hangers, steel saddles, plates and rods.

**IVDA 24-inch Diameter Transmission Main, City of San Bernardino Municipal Water Department (SBMWD)** - Siming served as the Project Manager for the WEBB Team that provided preliminary design engineering, alignment option evaluation, final design plans, and specifications for SBMWD's project consisting of approximately 14,000-LF of 24-inch diameter Ductile Iron Pipe (DIP) to connect Point "A" and Point "B" of the Intermediate Zone Inland Valley Development Agency (IVDA) and includes an 18-inch diameter pipeline crossing the Twin Creek freeway bridge at 9<sup>th</sup> Avenue.

**30-inch & 18-inch Water Main Improvements, Ontario Municipal Utilities Company** - Siming is serving as a Project Engineer and Construction Manager for this project which includes designing two water capital improvement projects for the Ontario Municipal Utilities Company. The first involves the design of 6,800-LF of 30-inch diameter transmission main from the 20-MG Reservoir (1212 Pressure Zone) on Eighth Street in the City of Upland and south on San Antonio Avenue to Fourth Street. The second project involves the design of 7,500-LF of 18-inch diameter distribution main in Fourth Street from Elderberry Avenue to Euclid Avenue. The key challenge for both of these projects is to select an alignment that avoids both existing utilities, maintains access to the residents in the area and includes an 18-inch diameter pipeline crossing the I-10 freeway bridge.



## Kristopher A. Danielson, PE

Senior Engineer

Kristopher (Kris) Danielson, PE, is a Senior Engineer with WEBB's Water Resources Department. Kris specializes in hydraulic analysis, sewer system master planning, field inspection, and construction management. His responsibilities include the planning and design of public works facilities, fluid system modeling, and report preparation.

### REGISTRATIONS

Registered Civil Engineer C 79743 (CA)

### EDUCATION

BS, Civil Engineering  
Brigham Young University  
AS, General Studies  
Ricks College

### CERTIFICATIONS

Sewer CAD Master Modeler  
Water Distribution Modeling

### AFFILIATIONS

American Society of Civil Engineers (ASCE)

### County Club Village Wastewater Capacity Study, City of Calimesa -

Kris served as Project Manager for this project where the City of Beaumont (Beaumont) required the City of Calimesa (Calimesa) to prepare a sewer availability study for the Country Club Village (CCV) development project currently being planned within Calimesa's boundaries. This area receives sewer service from Beaumont through contract arrangements. Sewage from this development will be delivered into Beaumont's collection system and treated at Beaumont's Wastewater Treatment Plant (WWTP).

### Eastvale Master Sewer Plan, Jurupa Community Services District, Mira Loma -

Kris conducted the hydraulic analysis for the existing and ultimate sewer system using a computer modeling program. He assisted in the development of the final report which addressed existing and projected study areas and wastewater characteristics, existing facilities, design criteria, cost estimates, alternative methods of collection, treatment, disposal, and recommendations of the apparent best alternatives.

### Master Sewer Plan, Jurupa Community Services District, Mira Loma -

Kris assisted in the final preparations of the Master Sewer Plan for the District. This report encompassed approximately 16,000 acres. The scope of the report included, among other things, population projections, establishing analysis criteria, projection of wastewater flows, modeling and analyzing existing and ultimate facilities, capital improvement projects summary, cost estimates, and recommendations.

### Master Sewer Plan, City of Fontana -

Kris was a valuable member of the WEBB Team involved in the City project. WEBB's approach to developing the Sewer Master Plan for the City focused on identifying necessary system improvements considering future development, potential densification, reducing existing lift stations where feasible, and addressing current shortcomings in the infrastructure. This involved flow monitoring, condition assessments, and asset evaluations. WEBB aimed for efficiency by utilizing existing data but acknowledged the need for field verification to fully meet the City's goals.



## Sinnaro Yos, PE

Senior Engineer

Sinnaro Yos, PE, is a Senior Engineer with WEBB's Water Resources Department. Sinnaro offers clients extensive experience managing the design and construction of a wide range of public works projects that enhance water quality and supply including water and wastewater systems, water reclamation, and water and wastewater treatment.

Sinnaro's responsibilities include master plan reports for water and wastewater systems, water and sewer pipeline sizing and hydraulic analysis, alignment analysis, and pipe thickness design. He also focuses on water booster stations, sewer lift stations and deep well drilling and equipping design, utilities coordination and permitting through agencies, preparation of bid documents, and engineering cost estimates.

Clients also depend on Sinnaro's wide-ranging construction management experience during construction of projects. He provides construction schedule analysis and control, schedules survey activities and specialized inspection efforts, and resolves field conflicts and issues. He also assists with processing submittals, RFIs, progress payments and change requests, conducts progress meetings, disseminates meeting minutes, communicates with the project inspector, contractor and owner, and provides for closeout of contracts. This includes conducting the final walk-through and generating a punch list, performing a final review of retention payments, and processing as-builts and O&M manuals. In addition, Sinnaro has provided technical memorandums as well as water and sewer master plan reports for projects which have been built and are operating successfully.

### REGISTRATIONS

Registered Civil Engineer C 68607 (CA)

### EDUCATION

BS, Civil Engineering  
University at Buffalo,  
State University of New York

---

### Annual Sewer Improvement Project, Edgemont Community Services District -

Sinnaro served as Project Engineer for a study designed to improve water quality in the City of Moreno Valley's Edgemont neighborhood. He performed water quality analysis and coordinated water quality sampling for the area's water system. He also developed the water quality section of the Edgemont Water Master Plan Update. The project included the preparation of master wastewater plans for the District, as well as creation of a hydraulic computer model, development of projected wastewater generation of various regions of the District, and determination sewer main sizing and alignment.

### Well Drilling, Design, and Equipping of Wells 27 & 28, Jurupa Community Services District -

Sinnaro served as a project engineer for this project. The WEBB Team provided the engineering and hydrogeology services to provide JCSD with two new groundwater wells to serve the District's water system and aquifer storage and recovery (ASR) capabilities. WEBB performed the site selection evaluation for these well sites based on both hydrogeologic and engineering parameters. The WEBB team prepared the drilling specifications and Geoscience provided inspection services during the well drilling of these wells.



## Sinnaro Yos, PE

Senior Engineer

**Regional Life Station PDR, Jurupa Community Services District** - Sinnaro served as the Project Engineer for the District's Regional Sewer Lift Station Projects. The District issued Certificate of Participation Bonds to finance the construction of certain capital improvements known as "the Project." The project included three major components to improve the District's sewer system: 1) Trunk Sewer System Improvements, 2) Regional Wastewater Pump Station Expansion and New Force Main to the City of Riverside's Water Quality Control Plant (WQCP), and 3) Florine Lift Station Replacement. More specifically, the second component is the combination of improvements to convey wastewater from the District's regional wastewater pump station to the City's WQCP, to address current deficiencies and meet ultimate conveyance requirements. The proposed preliminary design for these regional sewer facilities advances the project such that final design can be effectively initiated within the time frame specified by the capital improvement program.

**Annual Sewer Improvement Project, Edgemont Community Services District** - Sinnaro served as Project Engineer for a study designed to improve water quality in the City of Moreno Valley's Edgemont neighborhood. He performed water quality analysis and coordinated water quality sampling for the area's water system. He also developed the water quality section of the Edgemont Water Master Plan Update. The project included the preparation of master wastewater plans for the District, as well as creation of a hydraulic computer model, development of projected wastewater generation of various regions of the District, and determination sewer main sizing and alignment.

**Clay Street Lift Station, Jurupa Community Services District** - Sinnaro served as Project Engineer for this project, which included planning and design for replacement of the Clay Street Lift Station with the new Linares Lift Station and modifications to the Clay/Van Buren Lift Station in conjunction with two other major projects; the Regional Force Main replacement and the Clay Street/UPRR Grade Separation. The project included planning and phasing for the revised hydraulic conditions and construction phasing to match the other major projects.

The detailed project included:

- New 700-GPM, 25 hp pumping units with a 100 kw standby generator at Linares Lift Station
- A new 18-inch diameter regional force main segment within Clay Street
- A new 8-inch diameter gravity sewers within Clay Street and General Drive
- Two new 12-inch diameter waterlines within Clay Street
- A new 10-inch diameter sewer force main within Clay Street from railroad tracks to north of Linares Avenue
- Replacement of the pumps and electrical system for the existing Clay/Van Buren Lift Station, along with a new standby generator
- Our work also included preparation of multiple sewer bypass plans to allow uninterrupted service during construction for both lift stations and connections back into the Regional Force Main system
- Construction Management and Inspection Services



## Eric Hays, PE

### Senior Engineer

Eric Hays, PE, is a Senior Engineer with WEBB's Water Resources Department. Eric has years of diverse engineering experience with deep knowledge in the fields of hydrology, hydraulics, and drainage design. His experience includes the preparation of preliminary design reports, alternative analysis studies, canal design plans for flood control infrastructure projects, and storm drain system designs for residential, commercial, industrial, and public agency projects.

In addition to Eric's extensive experience with drainage project design, he offers clients strong civil site development and public project background. His experience includes development of site grading plans, street improvements plans, sewer plans, bike trail plans, Water Quality Management Plans, Stormwater Pollution Prevention Plans, and railroad grade crossing improvement plans. His expertise also includes survey, construction staking, construction observation, and support.

#### REGISTRATIONS

Registered Civil Engineer C 73614 (CA)

#### EDUCATION

BS, Civil Engineering  
California State Polytechnic University,  
Pomona

#### AFFILIATIONS

American Society of Civil Engineers (ASCE)

**University Wash Final Design, Riverside Flood Control & Water Conservation District** - Eric served as project engineer for the project. The University Wash Storm Drain Project included the planning, analysis, and design of a large diameter master plan storm drain that connects existing upstream and downstream facilities together. This project was unique in that the 2,450 LF, 90-inch RCP required for this project had to be designed to maneuver its way through a developed industrial corridor of the City. Key to this project was the coordination with local businesses to ensure construction of the storm drain minimized impacts to business operations.

**Cole Avenue Storm Drain Improvements, City of Riverside - Public Works Department** - The Cole Avenue Storm Drain Improvements between Lurin Avenue and Krameria Avenue conveyed runoff from the surrounding residential developments and discharged to a new outlet structure eliminating continual nuisance drainage problems as well as eliminating flooding problems associated with the intersection flooding that occurs during most storm events. The project watershed is developed residential home sites. There were no storm drain systems except along Lurin Avenue. The watershed area was subject to surface runoff within street right-of-way. The area was also subject to nuisance runoff associated with landscape irrigation on a frequent basis. WEBB designed 2,500-FT of storm drain improvements that reduced nuisance flows in the tract and in the roadside channel on the south side of Lurin Avenue to meet the future needs of the area. The alignment WEBB selected discharges runoff into the existing drainage feature 350-FT west of the intersection of Cole Avenue and Lurin Avenue via an impact energy dissipater structure to reduce the construction footprint within the existing right-of-way. This minimized the need for additional right-of-way and reduced the impact to existing vegetation. The system was designed so to easily connect to the future drainage system in Cole Avenue.



## **Dilesh Sheth, PE, TE**

Senior Vice President

Dilesh Sheth, PE, TE, is a Senior Vice President with WEBB and is Director of the Traffic & Transportation Department. Dilesh assists public and private clients with sophisticated civil works projects. Clients benefit from his expertise in presenting project findings and recommendations to elected officials, municipal commissions, community groups, and the general public.

Dilesh has coordinated projects with Caltrans and numerous counties, cities, flood control districts, utility companies, residential, and business owners throughout Inland Southern California. This experience enables him to help clients realize a wide range of project goals and comply with varied requirements. He balances the needs of the community with the needs of local jurisdictions to bring positive solutions to difficult situations and projects. Dilesh's technical experience includes highway design, intersection and interchange improvements, street widening, alignment studies, and geometrics' drawings. His recent projects include a diverse range of roadway design, freeway ramp improvements, residential development street design, traffic signal design, traffic control plans, signing & striping plans, and pedestrian and bike facilities. He has also handled site access evaluation, intersection capacity analysis, traffic forecasting, circulation planning, traffic impact studies, parking studies, parking demand analysis, transportation demand management plans, focused site specific traffic studies, and area-wide circulation studies.

Dilesh is currently serving as the Program Manager for the on-call traffic engineering services for the cities of Palm Springs, Cathedral City, Lake Elsinore, and Grand Terrace, and the County of Riverside. Through his efforts, Dilesh has been able to raise over \$24.3 million in funds from HISP and CVAG for these cities and their numerous projects. A large majority of these projects were completed without any matching funds needed from the City.

---

**On-Call Traffic Engineering Services, County of Riverside** - Dilesh serves as Principal-in-Charge for this on-call. WEBB has been providing on-call traffic and transportation engineering services to assist the County in collaborating with Caltrans and Riverside County Transportation Commission (RCTC) to resolve traffic and transportation issues and improve the County's network since 2003. Our depth of technical staff and understanding of transportation department needs has led to our success in providing services on time and within budget. Principle responsibilities include: Prepared the traffic signal, signing & striping, and traffic control plans, prepare street improvement and storm drain plans, prepare traffic impact analysis, prepare specifications, designs, cost estimates, bid proposals, and legal descriptions, serve as a Project Manager for the Capital Improvement Projects, represent the County in meetings with contractors, developers, consultants, utilities, and others, provide coordination with Caltrans, RCTC, Flood Control Districts, and other agencies, and prepare collision and safety analysis.

### **REGISTRATIONS**

Registered Civil Engineer C 65078 (CA)  
Registered Civil Engineer C 14934 (NM)  
Registered Traffic Engineer TE 2112 (CA)

### **EDUCATION**

BS, Civil Engineering  
University of Saurashtra Rajkot,  
India

### **AFFILIATIONS**

American Public Works Association (APWA),  
Coachella Valley

Institute of Transportation Engineering (ITE)  
Riverside and San Bernardino Counties

## Dilesh Sheth, PE, TE

Senior Vice President

**On-Call Traffic Engineering Services, City of Carson** - Dilesh serves as the Program Manager for these projects. WEBB is currently providing traffic engineering services to assist in completing City projects. Webb has providing traffic and transportation engineering services including, but not limited to:

- Plan check reviews for street improvements, signing & striping, traffic signal, traffic control plans, and project specifications
- Traffic study and VMT screening review services for private developments
- Traffic signal equipment submittal review for construction
- Preparation of Request for Proposals
- Traffic calming analysis for residential and collector streets
- Review private development projects and provide conditions of approval
- Review city planning and policy documents and provide comments and recommendations
- Conduct speed and traffic volume surveys and warrant analyses

**Highway Safety Improvement Program Design and Environmental Services, City of Cathedral City** - Dilesh served as a Project Manager for the Highway Safety Improvement Program (HSIP) Cycle 8 Traffic Signal Improvement Project. The City received funding through the federal aid Highway Safety Improvement Program (HSIP) Cycle 8 under the jurisdiction of Caltrans District 8 Local Assistance Program. WEBB provided environmental documentation and engineering design services for the project. WEBB prepared PES form per LAPM and submitted to Caltrans for review. The construction of the 20 traffic signal improvements qualified for a Class 1 Categorical Exemption. WEBB obtained approval through Caltrans in an expedited manner. WEBB performed field investigation to accurately create base plans. The traffic signal improvement plans were designed in conformance with the latest Caltrans Specifications and Standard Plans, the City of Cathedral City Standard Special Provisions for Installation and Modification of Traffic Signals, and the Coachella Valley Association of Governments (CVAG).

**Palm Springs Corridor & Traffic Signal Improvements, City of Palm Springs** - Dilesh serves as the Project Manager for these projects. WEBB is currently providing on-call civil and traffic engineering services to the City of Palm Springs to assist with the City's Capital Improvement Projects obtaining grant funding, and resolving traffic and transportation issues throughout the City. WEBB provided traffic and transportation engineering services for the following projects:

- **Indian Canyon Two-Way Conversion, Pedestrian, & Bicycle Safety Enhancements** - WEBB is providing engineering services for the Indian Canyon Two-Way Conversion, Pedestrian, and Bicycle Safety Project. WEBB provided pedestrian countdown heads, pedestrian detection, accessible pedestrian signals, leading pedestrian phasing, protected left-turn phasing, high visibility crosswalks, advanced stop lines, street lighting, and curb bulb-outs with ADA-accessible wheelchair ramps at nine intersections throughout the City
- **North Palm Canyon Drive Pedestrian Safety Enhancement Project** - This project consisted of the signalized intersections in the downtown area of the City of Palm Springs along Palm Canyon Drive from Tachevah Drive to Ramon Road. Each of the 10 intersections has basic crosswalk markings. WEBB assisted the City with a study, preparation of CVAG funding application, design of traffic signal, street improvements and ADA ramps, and utility coordination
- **Vista Chino (SR-111) and Via Miraleste and North Palm Canyon Drive (SR-111) and Via Escuela Intersection Improvement Project** - WEBB assisted the City with a study, preparation of CVAG funding application, design of traffic signal, street improvements and ADA ramps, utility coordination, and Caltrans Encroachment Permit applications



## **Myung Choo, PE, TE**

Practice Area Leader

Myung Choo, PE, TE, is a Traffic & Transportation Practice Area Leader in WEBB's Traffic and Transportation Department. In his role he develops the technical abilities of WEBB Team to better assist clients in achieving their transportation goals through preparing traffic studies, designing new traffic signals and upgrading existing traffic signals. Clients benefit from his extensive knowledge of governmental agency procedures, design, geometrics, signs, traffic controls, parking and maintenance. Among his duties, he presents findings and recommendations on traffic matters to elected officials, municipal commissions, community groups and the general public.

### **REGISTRATIONS**

REGISTERED CIVIL ENGINEER, CA 79651  
REGISTERED TRAFFIC ENGINEER, CA 2451

### **EDUCATION**

BS, Civil Engineering  
University of California, Berkeley

### **AFFILIATIONS**

Institute of Transportation Engineers (ITE)

Myung has extensive background in coordinating and processing permits through Caltrans for encroachment projects. He also offers experience with traffic-related technology, including TRAFFIX and WEBSTER programs for intersection analyses, SYNCHRO, ROADPLAN software for ICU and delay evaluations, and ULI spreadsheets in shared parking analyses. In addition, he has expertise in designing and analyzing micro-simulation computer traffic models.

**Madison Street Improvements, City of Indio** - Madison Street from Avenue 50 to Avenue 52 is an approximately one mile long arterial roadway located within the City of Indio and the City of La Quinta. Myung was the Project Engineer for the Madison Street Improvement Project. He assisted the Webb environmental team with alignment study and additional elements of the Project Design Report. During the design phase he was responsible for the utility relocation coordination and extents of right-of-way acquisitions. Myung was responsible for preparation of Plans, Specifications, and Cost Estimates (PS&E) on the project. To obtain PS&E approval, concurrence from both City of Indio and City of La Quinta was required. His role also included preparation of the traffic signal warrant at the intersections of both Madison Street and Avenue 50 and Avenue 52.

**Jackson Street and Avenue 50, City of Indio** - Myung is currently the Project Engineer for the Jackson Street project. The City of Indio proposes to improve Jackson Street from Avenue 52 to Avenue 49. Similar to the Madison Street project, the Jackson Street project requires multi-agency approval as the project limits are within both City of Indio and County of Riverside jurisdictions. Key design features of the project include adequate driveway tie-ins and necessary utility relocations where conflicts have been identified. This project also requires coordination and parking lot design of a well-known local market at the northeast corner of Jackson St. and Avenue 50.



## Nick Lowe, PE,TE

Deputy Director

Nick Lowe, PE, is a Deputy Director with WEBB's Traffic and Transportation Department. Nick assists clients with traffic signal upgrades, signing and striping modifications, and pavement improvements. He also develops temporary traffic control plans for construction while working closely with public agencies, contractors, and construction managers to safely expedite projects, thus minimizing impacts to traffic and businesses.

In addition, Nick assists other engineers on street improvements, street light installations, sewer and water plans, and expert witness testimony. He is also well-versed in the AutoTURN vehicle simulation program which assists in transportation improvements for constrained travel areas and parking lots. With increasing traffic pressure amid booming growth throughout Inland Southern California cities, Nick's work on regional transportation solutions provides a tangible benefit to the public through improvements in safety, mobility, and quality of life. Nick is currently pursuing his Professional Traffic Engineer's License and is active in several industry associations.

Nick provides grant funding assistance to the cities of Lake Elsinore, Palm Springs, and Cathedral City and has helped these cities secure over \$20.9 million in funding, with little matched funds needed from the City, to install advanced dilemma zone detection, flashing beacons, and left turn phasing at over 50 signalized intersections.

### REGISTRATIONS

Registered Civil Engineer - C 87666 (CA)  
Registered Traffic Engineer TE 3056 (CA)

### EDUCATION

MS, Civil Engineering  
University of Southern California  
BS, Civil Engineering  
Stevens Institute of Technology

### AFFILIATIONS

Institute of Transportation Engineers (ITE)  
American Society of Civil Engineers (ASCE)  
Intelligent Transportation Society of  
California (ITS)

**Madison Street Improvements from Avenue 50 to 52, City of Indio** - As Project Engineer for Madison Street Improvements from Avenue 50 to 52, Nick worked with the WEBB Team on this multifaceted project within the City of Indio and La Quinta. His responsibilities included leading the alignment study, Project Design Report, environmental assessments, utility relocation, right-of-way acquisition, and roundabout feasibility. This project encountered unique challenges due to the need for additional right-of-way, involving communication with property owners and the resolution of shared rights-of-way conflicts among multiple agencies. To avoid project delays, determining senior rights was essential, and after thorough research, it was established that the City of La Quinta held senior rights, leading to significant cost savings as the Imperial Irrigation District accepted shared responsibility for 37 transmission lines, avoiding over \$2 million in expenses.

**Art and Music Line, Coachella Valley Association of Governments** – Nick served as Project Engineer for this project. WEBB is actively collaborating with CVAG on the innovative Art and Music Line Project, delivering 15 miles of enhanced bikeways across various locations. This comprehensive initiative includes nine miles of protected bicycle facilities, promoting separation from vehicle traffic, and over six miles of traditional bike lanes. The project focuses on safety and accessibility, with unique elements like lighting and sound for access to festivals at the Empire Polo Grounds. WEBB played a key role in securing \$36 million in ATP Grant funds and introduced innovative features like bicycle signals, raised crossings, and more.

## Nick Lowe, PE,TE

Deputy Director

**On-Call Traffic Engineering Services, City of Lake Elsinore** - Nick serves as the Project Manager for the On-Call Traffic Engineering Services Contract for the City. WEBB provides support to City Staff and assists in resolving traffic and transportation projects and concerns within the City. WEBB provided traffic and transportation engineering services for the following projects:

- **Highway Safety Improvement Program Grant Application (Cycle 8):** WEBB applied for federal funding through Caltrans' HSIP in 2016 for the City of Lake Elsinore. The City was awarded \$825,300 to install advanced dilemma zone detection, flashing beacons, and left turn phasing at eight signalized intersections without any matching funds. WEBB sorted through city-wide historical collision data using Statewide Integrated Traffic Records System and conducted field reviews of the high-incident intersections to determine countermeasures. The application resulted in a very high benefit/cost ratio of 13.21
- **Caltrans Systemic Safety Analysis Report Program:** WEBB applied for and received funding for the Caltrans Systemic Safety Analysis Report Program in 2016 for the City. The City was awarded \$55,000 to prepare the report with \$5,500 in matching funds
- **Striping Improvements:** WEBB prepares signing & striping plans for known "trouble spots", slurry seal projects, and bike lanes. WEBB designs the plans to enhance safety and traffic operations while adding to the City's budding bike lane network
- **Railroad Canyon Road Interchange Monitoring System:** WEBB worked with City Staff, Caltrans, and McCain, Inc. to design and install traffic monitoring cameras and a communications system for five intersections at the Railroad Canyon Road/I-15 Interchange. WEBB and City Staff can now monitor traffic in real-time at those intersections and modify signal timings when needed
- **Traffic Control Plan Check:** WEBB receives and plan checks all submitted temporary traffic control plans for impending construction projects to ensure conformance with the latest edition of the California MUTCD. WEBB works with the City and the applicant to provide safe working areas for workers and the traveling public
- **Speed Surveys:** WEBB conducted speed surveys on 44 roadway segments throughout the City to update the posted speed limits and ensure the continuation of legal speed enforcement
- **School Zones:** WEBB procured and installed speed feedback signs at all schools within the City's limits to further reinforce the locations of school zones. WEBB also observes school drop-off and pickup times and procedures and works with school staff to determine safety and operational improvements



## Jeff Hutchins, PLA, ASLA

Manager, Landscape Architecture

Jeff Hutchins is the Manager for the Landscape Architectural Department at WEBB. He has more than three decades of experience as a landscape architect. Jeff's aspirations are exemplified in his development of green infrastructure on every project that comes in the door. By emphasizing "One Water," the comprehensive approach of managing water in an environmentally, economically, and socially beneficial manner, he strives to create self-sustaining landscapes. He also sees the value of placemaking in the built environment. Intelligent design activates a space inspiring people to revisit and value their communities. Additionally, Jeff has worked extensively with the Los Angeles and San Jacinto School Districts to provide students of all ages with access to nature to support learning as well as social, mental, and physical health.

### REGISTRATIONS:

Registered Landscape Architect  
PLA 3815 (CA)

### YEARS OF EXPERIENCE:

34 Years

### EDUCATION:

BS Landscape Architecture,  
California State Polytechnic University, Pomona

### AFFILIATIONS

American Society of Landscape Architects  
(ASLA)

*Vice President of Programs 2013,*

*Southern California Chapter*

*Treasurer 2004-2009,*

*Southern California Chapter*

California State Polytechnic University,

Pomona Landscape Architecture,

*Member & Past Advisory Board*

UCLA Landscape Architecture Extension,

*Past Advisory Board*

At a technical level, Jeff has established a project production method that has proven itself many times over. As new technologies and processes are introduced to the work flow, Jeff has integrated them while maintaining a standard of efficiency in project delivery. He oversaw the construction of some of the most visible projects, including SoFi Stadium (Lake Park), Dodger Stadium, Hillcrest Park, Vista Hermosa Park, Los Angeles River Greenway Trail, Ishihara Park, and several stormwater projects funded by local ballot measures, including the LA Zoo parking lot, Westside Rainwater Park, and South LA Wetlands.

### Project Experience (Partial List)

- Western Gage Median Park, City of Los Angeles
- Buchanan Elementary City of Los Angeles
- Coachella Central Park, Coachella, CA
- Sharp, Telfair, Haddon, and O'Melveny Elementary Schools, City of Los Angeles
- The Great Park, Irvine (beginning stages design)
- So-Fi Stadium, Inglewood
- George Lucas Museum of Narrative Art, Los Angeles
- Green Valley Park, Perris
- Beverly Gardens Park Restoration Plan, Beverly Hills
- Franklin Ivar Park, Mountains Recreation and Conservation Authority
- Vista Hermosa Park, Mountains Recreation and Conservation Authority
- BioTech Campus, Thousand Oaks
- Dodgers Stadium Site Improvement, Los Angeles
- Faith and Hope Park, Los Angeles
- Gerald Demond Bridge Replacement Highway, Long Beach
- Hillcrest Park, Fullerton
- Ishihara Buffer Park, Santa Monica
- Lemon Creek Restoration, Walnut
- Los Angeles Mission College (East Campus, Arts), Sylmar
- Los Angeles River Greenway Phase II, Studio City
- Los Angeles Zoo Parking Lot, Los Angeles
- Marsh Park Phase 1, Los Angeles
- Naples Sea Wall Replacement, Long Beach
- Nature Gardens at Natural History Museum, Los Angeles



## Jeff Hutchins, PLA, ASLA

Manager, Landscape Architecture

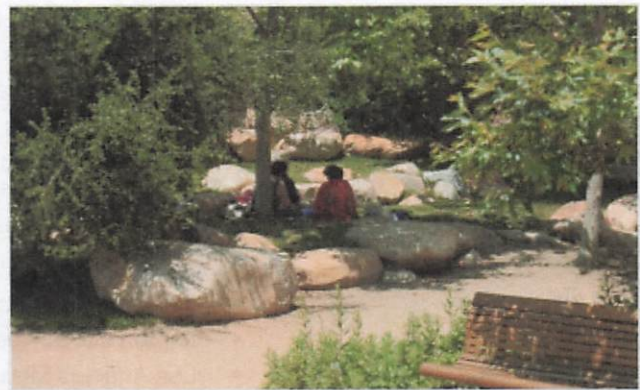
### Additional Detailed Project Experience



#### **La Verne Fire Station #2, City of La Verne**

Jeff served as the Principal Landscape Architect for La Verne Fire House. The project was born out of the drought years of 2011 through 2017. There was also a need to educate the public about stormwater harvesting and attractive water friendly plants. This particular fire house was in the middle of a residential area, had lots of lawn, and a high soil percolation rate. The site was a perfect candidate for the City's agenda. The turf and spray irrigation were removed and replaced with low water use plants with drip irrigation. Water was captured off the roof down spouts and diverted to cobble retention basins.

The City historically was known for the citrus packing industry, so a row of citrus trees were also installed to encourage neighborhood food production. Other recycled materials such as broken concrete and decomposed granite were installed to create paths and seating areas. As a finishing touch, interpretive signs were added to inform the reader about the plant material.



#### **Vista Hermosa Park, Mountains Recreation and Conservation Authority**

Jeff served as the Principal Landscape Architect for the 10.5-acre, urban natural park project located in Downtown Los Angeles. A project goal was to return the serenity and diversity of nature to the Los Angeles urban core. The park features walking trails, streams, meadows, and a nature-themed playground amidst native Mediterranean vegetation. The park's sculpted topography retains, treats, and captures 95% of rainwater that falls on the site in a system that includes permeable paving, a grassy meadow, vegetated swales, and a 30,000-gallon cistern that supplies irrigation for the park.



## Nicole Volpe, PLA, ASLA

Senior Landscape Architect

Nicole Volpe, PLA, ASLA, is an Senior Landscape Architect with WEBB's Landscape Architecture Department. Nicole has a range of experience that has given her perspective on many aspects of the progression and development process.

### REGISTRATIONS:

Registered Landscape Architect  
PLA 6436(CA)

### YEARS OF EXPERIENCE:

20+ Years

### EDUCATION:

BS, Landscape Architecture  
University of Guelph,  
Ontario, Canada

### AFFILIATIONS:

American Society of Landscape Architects  
(ASLA)

**Rancho Esperanza Cabins, County of Riverside** - Nicole was part of the WEBB Team that prepared Bridging Documents for the Esperanza Cabins Design/Build project in Rancho Jurupa Regional Park. The basis of the Bridging Documents will be the Feasibility Study dated 8/5/2022. The purpose is to prepare a package complete enough to convey the goals of the County's for the construction of three cabins and associated site work. The bridging document package will include the following:

1. County's program for the project.
2. County's design requirements for the project and related documentation.
3. County's sustainable objective for the project.
4. The project's physical characteristics.
5. County's budget for the cost of the work.
6. County's design and construction milestone dates.

### Virginia Robinson Gardens (VRG), Beverly Hills, CA: HALS Report

Nicole is currently served as the Plant Identification Lead for this project. She performed site visits to identify existing plant material and define historical plant material per the historical date of significance. She also coordinated meetings with VRG staff regarding history of planting and documentation including receipts, journal entries, etc., as well as coordination with the plant I.D. team and VRG intern regarding documentation. Nicole was also involved in the production, coordination and input of on-site documentation drawings, notes, plant lists and CAD drawings.

Project Leaders: Alison Terry, ASLA and Lisa Gimmy, FASLA

Estimated Completion: 2022

### Additional Project Experience (Partial List)

- Western Gage Median Park, City of Los Angeles
- Buchanan Elementary, City of Los Angeles
- Coachella Central Park, Coachella, CA
- Sharp, Telfair, Haddon, and O'Melveny Elementary Schools, City of Los Angeles
- Front Porch Garden, Aliso Viejo, CA
- Spanish Revival, Aliso Viejo, CA
- Modern Ranch, Rancho Mission Viejo, CA
- Mountain Retreat (Conceptual Design & Coordination) Whistler, Canada
- Mediterranean Garden (Design & Project Management) Aliso Viejo, CA
- Waterwise Garden (Design) Aliso Viejo, CA
- Doha Firestation Artist in Residence (Adaptive Reuse) Doha, Qatar
- Qatar Foundation Golf Course (Clubhouse/Residences) Doha, Qatar
- Al Shamal Park (Visioning) Al Shamal, Qata



## Guillermo Gonzalez, PLA

Senior Landscape Architect

Guillermo Gonzalez, PLA, is a Senior Landscape Architect with WEBB's Landscape Architecture Department. Guillermo has a strong irrigation and planting background. His experience with WEBB includes developing complicated potable and recycled water irrigation systems, planting layouts, and material specifications for public and private projects. Using the latest design software, his high level of computer experience allows him to prepare construction documents, conceptual landscape plans, and planning exhibits with ease. In addition, Guillermo also provides general design development support which includes preparing construction specifications, cost estimates, and schematic detail designs for WEBB's commercial/industrial, residential development, and traffic and transportation markets.

### REGISTRATIONS

Registered Landscape Architect PLA 6294  
(CA)

### EDUCATION

BS, Landscape Architecture  
California Polytechnic University,  
Pomona  
AS, Architecture  
Riverside Community College

### AFFILIATIONS

American Society of Landscape Architects  
(ASLA)

- Department of Public Social Services, City of Coachella
- Recycled Water Program Services - Irrigation Plan Check, Easting Municipal Water District
- Rancho Esperanza Cabin Feasibility Study and Preliminary Engineering, County of Riverside Parks Administration
- Green Valley Planning Area 25 Park in City of Perris Raintree Investment Corporation
- Barrington Basin & Recreational Area, City of Jurupa Valley
- Harvest Villages III, City of Jurupa Valley
- Goodman Commerce Center & Bridge, Goodman



## Reed Chilton, PE, QSD

Director - Construction Management and Inspection and Land Survey and Mapping

Reed Chilton, PE, QSD, is Director of WEBB's Construction Management and Inspection and Land Survey and Mapping Department. Reed has worked on a variety of private and public projects and has established a strong foundation in the engineering and construction management profession. His project experience includes sewer lines, drainage facilities, water lines, recycled water lines, wastewater treatment facilities, dry utilities, street improvements, street lighting, traffic signals, and landscaping. Specifically, his involvement with these projects includes preparation of specifications and bid documents, contract management and administration, permitting, submittal and RFI review and coordination, leading meetings, field investigations, project documentation, review and approval of change orders and pay estimates, project close-out, and managing day-to-day needs for owners and contractors.

### REGISTRATIONS

Registered Civil Engineer C 83827 (CA)

### EDUCATION

BS, Civil Engineering  
Brigham Young University  
MS, Civil Engineering  
Brigham Young University

### CERTIFICATIONS/TRAINING

Qualified SWPPP Developer (QSD) C83827

**Construction Manager for the \$25M Wastewater Treatment Plant, City of Imperial** - WEBB performed Construction Management, Inspection, and Engineering Support Services for the City's \$25M WWTP Upgrade Project. This project includes construction of a new MBR treatment system including MBR Basins, waste-activated sludge pumps, blowers, air compressors, permeate storage tank, and non-potable water pumps. A pre-engineered metal building was installed for the MBRS system which included a monorail bridge crane, office spaces, and lab room. A dewatering system with screw conveyors was also installed inside a pre-engineered metal building. Electrical improvements include a new transformer, main breaker, automatic transfer switch, and Emergency Power Generator. Site improvements include yard piping, paving, and rock installation. The project also includes modifications to existing facilities, shut-downs, and tie-ins to the active wastewater treatment plan.

**Construction Manager of a \$1.3M Headworks Upgrade, City of Imperial** - Improvements included headworks modifications, installation of fine screens, micro screens, splitter box, piping, shade structure, and electrical modifications.

**Construction Manager for the \$3.1M John J. Benoit Detention Center** - Project included off-site Storm Drain, Street, and traffic signal improvement for the County of Riverside Economic Development Agency. Storm drain improvements consisted of excavation/grading of retention basin of approximately 18,040 CY, installation of 3,660-LF of RCP ranging in sizes from 18-inch to 48-inch, and construction of 161-LF of curb inlet catch basins. Installation of RCP required multiple water relocations and modifications including vertical offsets ranging in sizes from 1-inch to 2-inch services and 6-inch to 12-inch mainline along with sewer lateral modifications. Coordination with the following agencies was required: Indio Water Authority, Valley Sanitary District, City of Indio Public Works, and Imperial Irrigation District. Reed also coordinated soils testing with local business owners.

## Reed Chilton, PE, QSD

Director, Construction Management and Inspection and Land Survey and Mapping

**Highway 74 Sewer Extension, Elsinore Valley Municipal Water District** Reed is the Project Manager for the Highway 74 Sewer Extension project. The project involves the installation of approximately 12,500-LF of 16-inch diameter sewer along Highway 74 from Wasson Canyon Road east to the District's service area boundary at Ethanac Road including a micro-tunneling operation on Wasson Canyon Road.

**Wastewater Treatment Plant MBR Replacement, City of Beaumont** - Reed is the Construction Manager for the City's Wastewater Treatment Plant which was recently upgraded and expanded to a capacity of 6 MGD. As part of the Upgrade Project, several facilities were removed and replaced with more advanced systems that required significantly less space and has resulted in more exposed dirt areas. There are also graded slopes that need to be protected from erosion and runoff going into the stormwater system. The City would also like to improve the functionality, safety and aesthetics of the Plant entrance by reconfiguring the gate on-site as well as upgrading the landscaping to include an entry monument. The final component of this project is to construct a permanent receiving station for vector truck discharges. The Plant currently receives vector discharge at a temporary facility.

**WRF1 Replacement of Centrifuge, Aeration Basin, and Digester Lid, City of Corona** - Reed is the Project Manager for this project which consists of installing a new centrifuge and belt conveyor at the City's WRF#1 site. The project includes site demolition and removal of existing structural, mechanical, and electrical components to accommodate the new centrifuge and conveyor facilities. A new drain line will be installed from the centrifuges to the oxidation ditch scum return lines.

**Bain Waterline Replacement, Jurupa Community Services District** - Reed is the Project Manager providing construction management services for the Bain Waterline Replacement project. The project consists of:

- 3,900-LF of 8-inch diameter C909 PVC water main
- 140-LF of 12-inch diameter C-909 PVC water main
- 655-LF of 8-inch CML/CMC water main
- 575-LF of 12-inch diameter CML/CMC water main
- 500-LF of 42-inch diameter jack and bore steel pipe casing under SR-60 Freeway
- Refurbish fire hydrants
- New water services and meter boxes
- Paving and street restoration

**Project Manager for the Huston Creek Wastewater Treatment Plant Primary Clarifier and Dewatering Building Improvements, Crestline Sanitation District** - WEBB provided Construction Management and Inspection Services for the Huston Creek Wastewater Treatment Plant (WWTP) Primary Clarifier and Dewatering Building Improvements Project. This project included construction management, inspection, geotechnical and materials testing, special inspection, electrical inspection, Mitigation Monitoring and Reporting Program summaries, and labor compliance monitoring throughout the project's construction phase. The project included constructing a new dewatering building with essential components like sludge holding tanks, feed pumps, and odor control systems, along with mechanical and electrical upgrades. Additionally, there were replacements for existing thickened sludge transfer pumps and trickling filter recirculation pumps. A new primary clarifier structure was built, and an emergency generator was installed. Site improvements, including grading, retaining walls, drainage, paving, and fencing, were also part of the project.



## Keith Barnett

### Construction Services Manager

Keith Barnett is a Construction Services Manager and Inspector with WEBB's Construction Management and Inspection Department. Keith has more than 25 years of experience with various types of projects. His experience as a construction manager for various large scale projects, coupled with his decisive nature and excellent project management skills, has made him capable of overseeing teams, budgets, and schedules. Keith is adept at client relationship management, scope development, and field monitoring.

#### **CERTIFICATIONS/TRAINING**

Traffic Control and Flagging Training Program  
NPDES Storm Water Training  
NRMCA Pervious Concrete  
Nuclear Gauge Operator

**Perris Logistics Center North Off-site Improvements at Redlands/Ellis, IDI Logistics** - Keith was the Construction Manager for this project which consisted of ensuring compliance with the contract documents, ensuring proper documentation was prepared for an auditable trail of events, and ensuring facilities were accepted by Caltrans and the City of Perris.

**Perris Logistics Center North I215/Bonnie Interchange, IDI Logistics** - Keith is the Construction Manager for the improvements which includes:

- Off-Site Street Improvement Plan – Bonnie Drive and I-215 Ramps
- Signing, Striping, and Traffic Signal Modification Plans – Bonnie Drive and I-215 Ramps
- Temporary Traffic Control Plans – Bonnie Drive and I-215 Ramps

#### **Downtown Sewer Replacement Project, Elsinore Valley Municipal Water District**

Keith is the Construction Manager and is providing construction management and observation services for the Downtown Sewer Replacement Project, FY 2023. This project consists of three separate areas of sewer line installation, abandonment, and replacement of aging sewer infrastructure in the City of Lake Elsinore. WEBB is providing construction management and observation service for all three areas.

The improvements include the following:

- Installation of 3,734-LF of new 8-inch PVC (2,224 LF of SDR-35 and 1,470-LF of C-900 DR-18) sewer main and a point repair of 40-LF of SDR-35 8-inch sewer, and 19 new sewer manholes. House lateral reconnections are also required within the street right-of-way and Alleys
- Street improvement work coordinated with the City of Lake Elsinore inspector. We have included the option to have WEBB provide inspection for the City
- Sewer bypasses will be required during mainline installation including tie-ins to the existing homes and manhole construction activities

#### **Highway 74 Sewer Extension, Elsinore Valley Municipal Water District**

Keith is the Construction Manager for the Highway 74 Sewer Extension project. The project involves the installation of approximately 12,500-LF of 16-inch diameter sewer along Highway 74 from Wasson Canyon Road east to the District's service area boundary at Ethanac Road including a micro-tunneling operation on Wasson Canyon Road.

#### **John J. Benoit Detention Center Phase II Offsite Storm Drain, Street, Landscape, and Traffic Signal Improvements, County of Riverside Facilities Management**

Keith provided construction management for this project located in the City of Indio. The project consisted of offsite improvements for the John J. Benoit Detention

## Keith Barnett

Construction Services Manager

Center, including Hwy 111 and Oasis roadway, new sidewalk, access ramps and associated concrete improvements, landscape and irrigation, signing & Striping, and traffic signal modification improvements. Coordination with the following agencies was required: City of Indio Public Works, Valley Sanitary District, and Indio Water Authority.

**21/22 Pavement Management and Slurry Seal, City of Indio** – Keith provided construction management for this project consisting of repaving 19 separate street segments inside 10 neighborhoods and three parking lots. Work included grinding and removing existing asphalt and replacing the removed asphalt to prior grade, final utility adjustments, replacing existing striping, removal and replacement of over 50 ADA access ramps, NPDES and AWMD compliance, traffic control, and resident/business notifications. WEBB also worked under a joint agreement with the County of Riverside to complete the County of Riverside portion of Dillon Road

**Stage Ranch Pipeline Replacement, Elsinore Valley Municipal Water District** - Keith provided construction management for this waterline replacement project, consisting of the replacement approximately 2,600-LF of an existing 10-inch CMLC water main with approximately 330-LF of 8-inch DIP, Class 53 pipe, and 2,270-LF of 8-Inch PVC C900, in the City of Wildomar. The project improved water quality and pressure of the existing water system which remained in service throughout the project to serve agricultural areas. There were multiple project challenges:

- A temporary highline was required to keep the waterline in service, however construction of proposed pipe was completed keeping the existing line active
- The terrain was mountainous with a 48% slope in some areas and granitic rock conditions were present
- Overhead powerlines were located along the alignment. The contractor had to use caution and coordinate with Edison
- The work area was extremely limited for the contractor
- A road detour was required and coordinated with the Forestry Service

**Washington Avenue Lift Station, Elsinore Valley Municipal Water District** - Keith provided construction management for this lift station decommissioning project. This project consisted of cleaning, flushing, and decommissioning of existing lift station pipelines, wet well, and force main as well as installation of 18-inch PVC-C905 DR 18 gravity sewer, manhole rehabilitation, site restoration and AC pavement overlay, and traffic control.

**Granite Hill Pipeline Phase I and II, Jurupa Community Services District** - Keith provided construction management for this waterline project. The project consisted of furnishing, installing, testing, and making operational approximately 11,655-LF of 42-inch diameter CML/CMC waterline. This included all connections to existing waterlines, all appurtenances, and all associated paving, trenching, and surface restoration; import materials; excavation, rock removal and disposal, backfilling, compaction, dewatering, paving, traffic control. The CML/CMC waterline was pre-manufactured, therefore extensive potholing was required. The project was constructed in two phases with liquidated damages for each phase. Coordination was required with local schools, businesses, and residents for street and water shutdowns.

**Administrative Building Upgrades, Elsinore Valley Municipal Water District** - Keith provided construction management for the upgrade to the District's administrative building. The project included improvements to the surrounding hardscape and landscaping areas to allow for drainage from the roof to be directed away from the building during rain events. Work included new drainage piping and catch basin improvements, landscaping improvements, as well as civil/grading improvements including concrete and pervious pavers in the walkways.

**Annual Sewer Mainline and Lateral Replacement, Edgemont Community Services District** - Keith provided construction Management for annual sewer mainline and lateral replacement projects for Edgemont Community Services District. Each year, the District replaces aging and damaged sewer mainlines and laterals in the City of Moreno Valley.



## Joseph Khader, EIT

Construction Manager

Joseph Khader, EIT is a Construction Manager with WEBB's Construction Management and Inspection Department. Joseph has more than 20 years of experience with various types of projects. His experience as a construction manager for various large scale projects, coupled with his decisive nature and excellent project management skills, has made him capable of overseeing teams, budgets, and schedules. Keith is adept at client relationship management, scope development, and field monitoring.

### REGISTRATIONS

Engineering in Training (EIT) 1512575

### EDUCATION

BS, Civil and Environmental Engineering  
Emphasis in Architecture  
California State University, Fullerton

### CERTIFICATIONS/TRAINING

California Department of Public Health  
(CADPH) Grade 1 Water Distribution Operator,  
OSHA 40 Hour EM385-1-1,  
Construction Quality Control Manager  
Certified, AGC San Diego

### I10 Cherry Valley Interchange Improvement Project, I10 Logistics Owner, LLC

Joseph was the Project Manager providing engineering support and as-needed engineering support services. The project consisted of the off-ramp improvements, traffic control, grading, retaining wall, traffic signal, streetlight, and signing and striping improvements.

### WRF1 Replacement of Centrifuge, Aeration Basin, and Digester Lid, City of Corona (City) -

Joseph is the Construction Manager for this project which consists of installing a new centrifuge and belt conveyor at the City's WRF#1 site. The project includes site demolition and removal of existing structural, mechanical, and electrical components to accommodate the new centrifuge and conveyor facilities. A new drain line will be installed from the centrifuges to the oxidation ditch scum return lines.

**Bain Waterline Replacement, Jurupa Community Services District** - Joseph is the Construction Manager providing construction management services for the Bain Waterline Replacement project. The project consists of:

- 3,900-LF of 8-inch diameter C909 PVC water main
- 140-LF of 12-inch diameter C-909 PVC water main
- 655-LF of 8-inch CML/CMC water main
- 575-LF of 12-inch diameter CML/CMC water main
- 500-LF of 42-inch diameter jack and bore steel pipe casing under SR-60 Freeway
- Refurbish fire hydrants
- New water services and meter boxes
- Paving and street restoration



## Andrew Vollrath

Assistant Engineer

Andrew is currently an assistant engineer working on receiving his Professional Engineering License. Andrew manages the progress of numerous projects, with the goal of a high-quality product within budget and schedule. His role includes preparing and negotiating the financial aspects of the job, ensuring materials are up to standard, maintaining communication between owners, contractors, and engineers, and collaborating with designers and public agencies to ensure a successful construction process.

### EDUCATION

Bachelor of Science,  
Civil Engineering/Construction Management  
University of Colorado, Boulder



***This page is intentionally left blank***

## Section 4. Work Plan

---

### Management Philosophy

WEBB understands the absolute need for strong project management. We recognize the critical issues associated with schedule, budget management, and communication. Communication and coordination between the engineering consultant and the City is paramount to each project. To guarantee continuous and effective communication, a project manager will be assigned to each project to serve as the primary point-of-contact to the City and a Principal-in-Charge will be monitoring the entire process. Our assigned project manager will make it a priority to attend all meetings between the City and the project proponents during the project. This will ensure a constant and effective way of communication resulting in strong budget and schedule control.

### Responsiveness and Proximity

Our project management and delivery approach has two major elements: (1) use an experienced project management team with detailed experience of the project scope, clear understanding of the City's facilities and preferences, and clearly defined responsibilities and proven management tools to deliver any simple to complex project that meets the City's needs on budget and on schedule, and (2) have a detailed delivery plan that is understood and accepted by the City and the consultant team, with deliverables completed on schedule for timely decision making.

### Management Responsibilities and Procedures

Brian Knoll, PE, will be the direct point-of-contact as the Principal-In-Charge for the City's contractual matters focusing on resolving any critical contract issues as soon as they are identified. Brian will have the authority to commit firm resources and will support the project manager in managing the overall scope, schedule, and budget. Brian's experience on large multi-disciplinary projects has trained them to look forward to identify and prevent potential delay-causing issues.

Assigned Project Managers for each project will be responsible for facilitating final decisions by the City, coordination, management, communicating to the project team and the City project manager, reviewing design deliverables, and directing design support service disciplines and specialty subcontractors. Brian will assist in presenting the technical work at meetings and documenting action items and decisions.

The assigned project manger will be responsible for the day-to-day project and technical management which includes:

- Facilitating frequent and consistent communications with the City
- Implementing the overall delivery plan
- Managing the overall scope, schedule, and budget
- Implementing the QA/QC Program
- Overseeing the project controls staff for timely project management reports

The Team QA/QC and Project Management Plan will facilitate successful project execution. Management tools, procedures, and a delivery plan are all contained in a comprehensive Project Management Plan that is prepared at the beginning of the project and is updated throughout the project. Having a comprehensive and detailed Project Management Plan is essential for delivering a major design project with an integrated team consisting of the City, multiple stakeholders, multiple disciplines, and many deliverables. The City input into the plan will be essential to make certain it is an effective tool, adequately used, and meets your needs. An outline of the Project Management Plan and some initial comments and items to be included, in addition to our detailed Communication Plan, are as follows:

### **Kick-off Meeting - Initial Design Workshop**

After project award and notice-to-proceed, our project team will conduct a Kick-off Meeting and Initial Design Workshop with all members of the project team and key City Staff. The workshop is structured to establish communication protocols for the project, as well as to identify critical success factors and processes, activities, and tasks that must be carried out to achieve project goals. The workshop is an important step to ensure all parties are focused on the same project goals and help clarify the critical path issues, key outside stakeholders, milestones, and third-party approvals.

### **Scope Management**

A detailed Work Breakdown Structure (WBS) is typically included in our fee budget proposal and will be utilized for the project duration with detailed tasks. With input from the City, the scope will be finalized and adopted for the overall project. During the execution of the project, the scope will be utilized as a baseline by our project manager, who will manage the scope and work product. If potential changes are identified as the project develops, our project manager will work with the City to clarify and approve any additional tasks necessary to complete the project.

### **Schedule Management**

A preliminary schedule will be prepared, provided, and discussed. In collaboration with the City, the project schedule and milestones will be evaluated and then modifications will be made to set the final baseline schedule during the initial project kick-off process. The baseline schedule will be monitored and tracked by our project manager to maintain the project milestones and manage critical path items. A tracking schedule will be provided with monthly updates and all schedule variances identified. Actions required to correct schedule deviations will be developed and implemented by the team. The project schedule is an effective management tool when developed and maintained to guide the design team through the tasks required to successfully complete a project. WEBB uses Microsoft Project software to schedule and track project tasks.

### **Cost/Budget Management Plan**

The proposed project budget will be prepared based on tasks required to successfully complete the project. Our project manager will track the final budget compared to the actual earned value, task completion, and cost-to-date and will identify any project cost variance monthly. Corrective actions will be taken to maintain the project budget. If changes to the scope and budget are deemed necessary, our project manager will work with the City to justify the need and clearly define the impacts.

### **Communication Plan and Management**

Communication between all team members and the City is critical to its success. A key differentiator between our project team and our competitors is our physical location and our ability to meet with the clients and stakeholders quickly. We are committed to providing consistent communication by having required members of the project team available for all City meetings.

Another differentiator is our in-house support of civil engineering, environmental services, transportation engineering, and planning resources. Project related questions can be resolved almost immediately providing high quality solutions.

### **Issue Management/Risk Management**

The tracking of project issues and management of risks is facilitated through a tracking log and available to the City and the project team. With issues being raised through email, phone calls, and meetings throughout the duration of the project, having a centralized document ensures project impacts are identified, logged, assigned, analyzed, acted upon, and addressed as part of the design process.

## Quality Management Plan (QMP)

The quality control for this project will be embedded in every stage of the project development. Our QA/QC Program is designed to enhance the cooperation and synergy between the disciplines in-house, our design teams, sub-consultants, and City. Our entire staff is part of the QA/QC Program and each plays a significant role in its implementation. As an underlying principle of our QA/QC Program, WEBB will utilize senior level staff to review work the product to utilize the experience and knowledge to each aspect of the project.

Our quality assurance begins with developing a close and continuous line of communication between the design team and the City. Our experience indicates good communication is a critical element to project success. Under our project protocol, we keep an organized directory of all project-related communication, meeting minutes and action items, documents, images, data, and plan sets, which allows us to respond quickly to requests. We will seek the input of operations and engineering staff throughout the project development to ensure the project meets the needs of the City.

The proposed project schedule and work plan, developed by the project manager, will be evaluated by our internal peer review team. We recognize a comprehensive, realistic project schedule is critical to the decision-making process for the City. This schedule will include all interim milestones, reviews, third party reviews, and deliverables for the project.

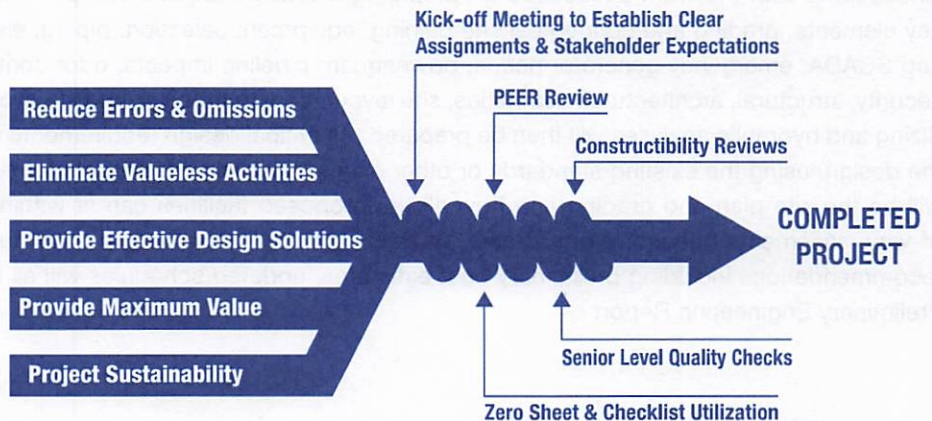
As part of the preliminary design and evaluation of project alternatives, the key project team members will meet and discuss the challenges of each of the proposed alternatives. By bringing these disciplines together early in the project, we can recommend the best project alternative and develop a list of critical design issues that need to be addressed as the detailed design is implemented.

A key aspect of our Quality Control Program is the location of existing utilities. These must be confirmed in order to select the most cost-effective alignment. Our in-house utility coordination will acquire the alignments of the existing utilities from the utility companies and combine them for the initial conflict control maps. Our engineers will then walk each of the proposed alternatives and compare the mapped utilities to the site conditions to confirm the correlation between the mapping and the actual locations of bus stops, vaults, valves, catch basins, manholes, and overhead utilities. Potholing of utility crossings will be done to confirm x and y coordinates at each utility crossing so an accurate plan and profile can be designed.

After the preliminary design has been developed, the project will receive a comprehensive internal peer review prior to submittal and coordination with the City. This peer review will be utilized to ensure the preliminary design is clear, concise, comprehensive, and most importantly, meets the objectives of the City.

Joseph Caldwell, PE and Bradley Sackett, PE, will use their years of project design and management experience to serve on the QA/QC team, leading the QA/QC reviews. Both Joseph and Bradley have been responsible for the successful delivery of large scale, multi million dollar projects for various agencies in the region

## QA / QC PROCESS



## **Scope of Work**

Below is our typical approach to a Scope of Work. Details will vary based on the specific needs of the project and the detailed Request for Proposal (RFP) requirements as developed by the City. This conceptual Scope of Work will be modified as needed. WEBB can assist in developing a complete Scope of Work from a conceptual project need if desired by the City.

### **Task 1 - Project Management and Deliverables**

WEBB will prepare a project design schedule, prepare status reports, submit invoices, coordinate with all the sub-consultants and be the City's main point of contact for the consultant team. WEBB will organize and participate in specific meetings and will arrange for and attend additional meetings to resolve specific issues. The Kick-off Meeting will include introducing our team, our approach, our anticipated schedule, and our understanding of the critical success factors for the City on this project. WEBB will prepare and distribute agendas prior to all meetings, prepare and distribute meeting minutes, and track all action items from the meetings.

WEBB will coordinate all internal design activities along with all sub-consultant activities, including all contracts, insurance requirements, field work, reports, etc.

### **Task 2 - Research Existing Conditions**

The key to a successful design is having all the required information on the existing condition of the site and the current operation. The task includes a comprehensive site reconnaissance visit, and meeting with the City's Operations, Maintenance and Engineering Staff to better understand the current operational challenges and limitations and ultimate project success factors. WEBB will prepare a list of requested items from the City such as as-built plans, operational data, etc. WEBB will also research survey record data for the rights-of-way. It is anticipated the City will provide any easements associated with the existing facilities or encumbering City-owned site. WEBB will also prepare a complete and comprehensive survey, mapping, and topography using both field and aerial topography. We will prepare and implement a potholing plan.

### **Task 3 - Geotechnical, Groundwater Exploration, Corrosion Testing, and Seismic Evaluation**

Our selected sub-consultant will prepare a comprehensive geotechnical investigation and report for the project per the requirements of the RFP. There may be a need to include groundwater observations well(s) if requested in the RFP. As part of the initial project review, our team will evaluate the need for the groundwater monitoring wells, and recommend changes to the Scope of Work that may be appropriate for this project. Any proposed changes to the Scope of Work will first be reviewed and approved by the City prior to implementation.

### **Task 4 - Preliminary Design**

As part of this task, WEBB will identify and address any site constraints such as available rights-of-way, proposed alignments, existing facilities, necessary permits, structural and geotechnical constraints, traffic issues, site access, alternatives for maintaining service throughout the construction phase, grading, utility service (typically IID), and landscaping with the work all focused on preparing a viable site plan. The preliminary design will focus on sizing the key elements; grading and conceptual site planing, equipment selection, piping, electrical service and panels, controls and SCADA, emergency generator needs, downstream pipeline impacts, odor control, maintenance requirements, site security, structural, architectural, aesthetics, site layout, constructability, and life cycle costs of the various components. Sizing and hydraulic analyses will then be prepared. All critical design requirements will be reviewed and incorporated in the design, using the existing standards or other example facilities as models for success. For Civil projects, the focus will be the site plan and grading and how all the proposed facilities can fit within the project limits, available rights-of-way, easements needed, storm drains, WQMP, traffic movements and truck turning analysis. All the findings and recommendations including preliminary cost estimates, updated schedules will all be summarized in a comprehensive Preliminary Engineering Report.

## **Task 5 - Final Engineering and Preparation of Contract Documents**

WEBB and its team will prepare all final engineering documents needed for the project, including plans and technical specifications, incorporating the contract front end documents from the City into the overall package and cost estimates. WEBB will also coordinate applications and approvals for all permits necessary for the project including SCE service plan, any encroachment permits that may be needed for either design or construction, SCAQMD permit for the emergency generator and odor control system if needed, DDW coordination if required, the appropriate City department for working with street pavement, and the City planning department for the overall design compliance.

The design will include the entire project and site work (site, civil, mechanical, structural, electrical, instrumentation, etc.), pipelines, and any demolition or decommissioning work. Submittals will be at the 50%, 90%, 100% and final.

## **Task 6 - Pre-Procurement and Bidding Services**

If needed, the WEBB Team will support the pre-procurement of certain long lead items such as motor control center, emergency generator and enclosure as well as potentially pumps and motors. WEBB will confirm lead times during the preliminary design phase with selected manufacturers to finalize the pre-procurement list. WEBB will assist in preparing the technical documentation necessary for the process on the selected equipment and incorporate the appropriate specification sections in the construction bid documents to specify the contractor's responsibilities for such items as off-loading, storage, installation, testing, and warranties.

Bid services include typical elements including attendance at the pre-bid meeting, preparing addenda in response to bidder's questions, and preparing conformed plans and specifications, incorporating all addenda.

## **Task 7 - Engineering Services During Construction**

This work will include general engineering support, review of shop drawings, submittals, O&M Manuals, site visits and meetings during construction, start-up and final acceptance support, preparation of the final record drawings and a draft operational overview to be use by the City when operating the facility after acceptance.

## **Task 8 - Optional Items**

**Renderings** – If selected by the City, WEBB can prepare two 3D renderings of the proposed facility and an amination file of a 3D drive by of the facility from the AutoCAD files.

**WQMP** – If selected by the City based on the size of the proposed site, WEBB can prepare a water quality management plan that meets the local Riverside County guidelines.

**Environmental** - if selected by the City, WEBB can prepare complete and comprehensive documentation required by CEQA ranging from simple Notice of Exemptions to complex IS/MND or Environmental Impact Reports.

[Faint, illegible text covering the majority of the page, likely bleed-through from the reverse side.]

***This page is intentionally left blank***

## Section 5. Sub-consultants

---



Water Resources Engineering

Justin Logan, PE

533 W 2600 S Suite 25

Bountiful, UT 84010

T: 801.299.1327

**DIR** 1000008969

---

AQUA Engineering (AQUA) is a civil engineering firm specializing in municipal engineering, water and wastewater treatment design, water resources, and environmental services. AQUA is headquartered in Bountiful, Utah with a new location in Denver, Colorado, and has provided quality services to clients throughout the west. As one of the region's leading civil engineering firms, they are qualified, responsive, and highly experienced in the design, operation, and maintenance of water and wastewater treatment facilities.



Electrical Engineering

Mark Jeppsen, PE

533 W 2600 S Suite 25

Bountiful, UT 84010

T: 801.677.0011

**DIR** PW-LR-1000976725

---

SKM Engineering (SKM) will provide electrical engineering services for the City's project. SKM is a premier electrical engineering firm specializing in SCADA (supervisory control and data acquisition), telemetry, and electrical and control design. They employ a staff of highly trained electrical engineers with extensive experience in electrical design, instrumentation and controls, and PLC and HMI programming and design services. Their focus on wastewater and water systems provide clients with extensive process knowledge and understanding of water well and treatment projects.



DESIGN WEST ENGINEERING

Electrical Engineering

Leo Maya, PE, LEED AP

412 E Vanderbilt Way

San Bernardino, CA 92408

T: 909.890.3700

**DIR** 1000049758

---

Design West Engineering (DWE) will provide electrical engineering services for the WEBB Team. They were founded on the philosophies of second-to-none service, environmental sensibility, and commitment to forward-thinking innovation. Established in 2000 and centered on these ideas, DWE quickly grew to become one of Southern California's most prominent and the Inland Empire's largest MEP firms. DWE currently maintains approximately 35 employees and offers a diversified range of practical experience in municipal, educational, green-building, transportation, medical, commercial, and residential building sectors. Their highly qualified and innovative engineers work in a multi-disciplined environment, each familiar with overall project requirements in addition to their specific area of expertise, and offer the most up-to-date expertise in the latest technologies to maximize your project's potential.



Corrosion Engineering

Richard F. Yeager Jr., PE

1016 Broadway Ste. A

El Cajon, CA 92021

T: 619.312.0195

**DIR** 1000020466

---

RF Yeager Engineering is a DVBE/SBE, SLBE, and SCOOP certified corrosion engineering firm providing corrosion control inspections and design services for the oil, fuel, water, and wastewater industries. Established in 2004, they have built strong relationships with many of the local public agencies and municipalities and truly believe that Client and Owner satisfaction is the method in which to measure a project's success. They pride themselves in being responsive to the Client's needs and to offer a quality product, personalized service, and at a competitive rate.





#### Structural/Architectural Engineering

Christina Nishimoto, PE, SE

770 First Avenue, Suite 400

San Diego, CA 92101

619.831.4600

**DIR 1000001733**

Kleinfelder will provide structural engineering services for the WEBB Team. Kleinfelder's structural engineering services are delivered by a multi-disciplinary team of experts to various public agencies and private companies. During the past 25 years, their experienced structural engineers have gradually adapted to changing technology, codes, and standards. Kleinfelder's structural design is fully integrated with technology using the most recent software developments such as BIM (Building Information Modeling), SAP 2000, Larsa 4D Bridge Plus, and others.

Kleinfelder's structural engineers have extensive experience in the design and construction management support for a variety of projects utilizing current guidelines, codes, and standards. They have an outstanding reputation of accomplishing projects on time and within the original negotiated budget.



#### Geotechnical Engineering

Jeffrey O. Lyon, PE

780 North 4<sup>th</sup> Street

El Centro, CA 92243

T: 760.370.3000

**DIR 1000041730**

LandMark Consultants, Inc. (LandMark) is a consulting firm providing geotechnical engineering and construction materials testing services in the Imperial, Riverside, and San Bernardino County areas of Southern California. The firm was incorporated in El Centro in 2003 with staff assembled in association with Southland Geotechnical since 1987. The staff of Landmark's El Centro office has been operating together since 1982 and has earned a reputation for high quality, cost effective, and responsive technical and professional service. The technical experience and commitment of LandMark Staff results in innovative, cost-effective geotechnical consulting services for small and large projects with challenging site conditions and issues. LandMark works with clients and other involved parties to develop strong working relationships based on integrity, mutual respect, and the shared commitment to designing and constructing noteworthy projects.



#### Geotechnical Engineering

Hashmi Quazi, PhD, PE, GE

717 S. Myrtle Ave.

Monrovia, CA 91016

T: 909.796.0544

**DIR 1000001465**

Converse Consultants provides professional services in the fields of geotechnical engineering, engineering geology, groundwater sciences, environmental sciences, and soils and materials testing and inspection. Their mission is to work together with clients to provide them with responsive and quality services, resulting in the development of long-term relationships. Clients include public agencies and private sector clients in the transportation, water/wastewater, educational, residential, commercial, and other market segments.



#### Cost Estimating and Value Engineering

Jeff Puzzullo

504 Machado Way

Vista, CA 92308

T: 760.533.3500

With a career based upon construction of public works improvement projects, Jeff Puzzullo has been involved in many of the municipal infrastructure projects in California, Nevada, and Arizona since 1980. Puzzullo Consulting strives to provide its clients with excellent cost estimating and project planning budgeting based upon preliminary and advanced levels of design detail. Each cost estimate is prepared in fine detail similar to what a bidding general contractor would take to develop a total project construction cost. With Mr. Puzzullo's direct hands-on construction business management experience, extreme care is taken to include all costs that may be anticipated by a contractor during the performance of a construction contract. It is this experience and capability that our clients can rely on for an accurate, realistic, and complete cost estimates, constructability reviews, value engineering, and/or CPM project schedules.

## Section 6. Client Reference List

WEBB has the required expertise and provides services in landscape architecture, traffic and transportation, stormwater engineering, municipal engineering, water resources, land development engineering, geographic information system, construction management/inspection, entitlement processing, and land survey and mapping. Our diverse resources will aid the City in achieving its goals and meeting the needs of the council, commissions, and citizens.

The City will reap the benefits of our team's approach to client service. Client service is our number one goal. WEBB's reputation for superior quality work, integrity, and long-standing client relationships is a direct result of our industry proven capabilities and experience. We are proud of the name WEBB as it has become synonymous with experience and customer service. We encourage the City to contact our references to discuss any questions you may have regarding the continuity of our team, responsiveness to our client needs, efficiency of our team, and quality of our work.

Agency	Contact Person	Contact Information
City of Beaumont 550 East 6th Street Beaumont, CA 92223	Thaxton Van Belle, General Manager Utilities	951.845.1171 tvanbelle@beaumontca.gov
County of Imperial - Public Works 155 South 11th Street El Centro, CA 92243	John Gay, Director of Public Works	442.265.1836 johngay@co.imperial.ca.us
Coachella Valley Water District 51501 Tyler Street Coachella, CA 922367	Sabrina Nies, PE Engineering Manager	760.404.5627 Ext. 2288 snies@cvwd.org
City of Corona 755 Public Safety Way Corona, CA 92880	Tom Moody, General Manager Public Utilities	951.279.3660 tom.moody@ci.corona.ca.us
Eastern Municipal Water District 2270 Trumble Road Perris, CA 92572	Greg Kowalski, PE Engineering Manager	951.928.3777 kowalskig@emwd.org
San Bernardino Special Districts 222 W. Hospitality Lane Second Floor San Bernardino, CA 9241	Byanka Velasco, PE, Division Manager	909.386.8834 byanka.velasco@dpw.sbcounty.gov
Jurupa Community Services District 11201 Harrel Street Jurupa Valley, CA 91752	Eddie Rhee, PE Engineering Manager	951.685.7434 Ext. 118 erhee@jcsd.us
City of Ontario Municipal Utilities Company 1333 S. Bon View Avenue Ontario, CA 91761	Thomas Palmieri, PE	909.395.2688 tpalmieri@ontarioca.gov

***This page is intentionally left blank***

# Section 7. Fee Schedule



## Fee Schedule

### CLASSIFICATION

<u>Engineers/Project Managers/Planners/Scientists/ Assessment/Special Tax Consultants/Landscape Architects/Designers</u>	<u>Rates \$/Hour</u>
Principal II.....	302.00
Principal I .....	287.00
Senior III .....	272.00
Senior II .....	259.00
Senior I .....	250.00
Associate III .....	233.00
Associate II .....	220.00
Associate I .....	210.00
Assistant V .....	189.00
Assistant IV .....	170.00
Assistant III .....	157.00
Assistant II .....	142.00
Assistant I .....	125.00

### Survey Services

2-Person Survey Party .....	314.00
1-Person Survey Party .....	221.00

### Inspection Services

Construction Manager II .....	274.00
Construction Manager I .....	192.00
Inspector (Non-Prevailing Wage) .....	141.00
Inspector Overtime (Non-Prevailing Wage) .....	190.00
Inspector (Prevailing Wage) .....	152.00
Inspector Overtime (Prevailing Wage) .....	200.00

### Administrative Services

Project Coordinator .....	135.00
Administrative Assistant III .....	115.00
Administrative Assistant II .....	102.00
Administrative Assistant I .....	81.00

### Other Direct Expenses

Incidental Charges .....	Cost + 15%
Postage .....	Cost
Subcontracted Services .....	Cost + 15%
Special Consultant.....	385.00
Survey/Inspection Per Diem.....	Prevailing Wage Rate
In-House Delivery Up to 1/2 hour.....	34.00
In-House Delivery 1/2 Hour up to 1 Hour.....	67.00
In-House Delivery Over 1 Hour up to 2 Hours.....	124.00
In-House Delivery Over 2 Hours.....	178.00
Survey/Inspection Vehicle .....	0.81/Mile
Mileage .....	0.72/Mile

Note: All rates are subject to change based on annual inflation and cost of living adjustments. Prevailing wages are dictated by the California Department of Industrial Relations (DIR). As such, the indicated rate will remain in effect until revised rates are published by the DIR. The rate shown shall be subject to renegotiation to remain in compliance with State requirements if prevailing wages are increased by the DIR.


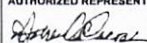
\* A FINANCE CHARGE of 1 ½ % per month (18% per year) will be added to any unpaid amount commencing thirty (30) days from invoice date. A mechanic's lien may be filed for any invoice remaining unpaid after thirty (30) days from invoice date.

SCH 2022 (06/01/2022)

***This page is intentionally left blank***

# Section 8. Certificate of Insurance

Below is a sample Certificate of Insurance (COI). Upon execution of contract, WEBB will provide a COI specific to the project.

	ALBEAWE-01	RDEANDA				
<b>CERTIFICATE OF LIABILITY INSURANCE</b>		DATE (MM/DD/YYYY) 1/16/2024				
<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.</p>						
<p><b>IMPORTANT:</b> If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).</p>						
PRODUCER License # 0757776 HUB International Insurance Services Inc. PO Box 5345 Riverside, CA 92517	CONTACT NAME: Kristie Koehrer PHONE (A/C, No, Ext): (951) 779-8558      FAX (A/C, No): (951) 231-2572 E-MAIL ADDRESS: cal.cpu@hubinternational.com					
INSURED  Albert A. Webb Associates 3788 McCray Street Riverside, CA 92506	INSURER(S) AFFORDING COVERAGE      NAIC # INSURER A : Travelers Property Casualty Company of America      25674 INSURER B : Lexington Insurance Company      19437 INSURER C : INSURER D : INSURER E : INSURER F :					
<p><b>COVERAGES</b>      <b>CERTIFICATE NUMBER:</b>      <b>REVISION NUMBER:</b></p>						
<p>THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.</p>						
INSR	TYPE OF INSURANCE	ADDITIONAL SUBROGATION	POLICY NUMBER	POLICY EFFECT DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> \$0 Deductible  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:		P-630-8W805292-TIL-23	9/1/2023	9/1/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPIOP AGG \$ 2,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		BA-9T94622A-23-43-G	9/1/2023	9/1/2024	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0		CUP-9T948494-23-43	9/1/2023	9/1/2024	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
A	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> Y <input type="checkbox"/> N/A	UB-4J648178-23-43-G	9/1/2023	9/1/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	Professional Liab.		031711122	9/1/2023	9/1/2024	Ded \$25k/EaClaim 2M      2,000,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) For Informational Purposes Only.						
<b>CERTIFICATE HOLDER</b>				<b>CANCELLATION</b>		
**For Insured's Purpose Only**				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.		
				AUTHORIZED REPRESENTATIVE 		

ACORD 25 (2016/03)

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

# Section 9. Exceptions and Deviations

WEBB does not take any exceptions or deviations from the requirements of the RFP.

***This page is intentionally left blank***

# Section 10. Proposal Acknowledgement Form



## EXHIBIT A

### PROPOSAL ACKNOWLEDGEMENT FORM

The Proposer hereby acknowledges receipt of addenda number(s) N/A, if any.

**By signing below, the Proposer agrees to all terms and conditions in this RFP, except where expressly described in the Proposer's Services Proposal.**

B. LLC  
Original Signature by Authorized  
Officer/Agent

95-1723730  
Vendor's Tax ID Number (FEIN)

Brian Knoll, PE  
Type/Print Name of Signatory

Albert A. Webb Associates  
Company Name

Chief Operations Officer  
Title  
3788 McCray Street  
Riverside, CA 92506  
Consultant Mailing Address

951.830.3389  
Phone Number  
951.788.1256  
Fax Number

www.webbassociates.com  
Website Address

brian.knoll@webbassociates.com  
E-mail Address

Form of Business (mark one of the following):

- Sole Proprietor/Individual
- Partnership
- Corporation
- Limited Liability Company (LLC)

If a corporation, the State where it is incorporated: California





RFP NO. 2024-04  
**ON-CALL CIVIL  
ENGINEERING SERVICES**

*Proposal for*



# 1. TRANSMITTAL LETTER



AZTEC Engineering Group, Inc.  
30 Executive Park, Suite 120  
Irvine, California 92614  
TEL: 714.656.2805  
FAX: 714.754.1690

July 26, 2024

**City of Imperial**  
Public Services Department  
420 S. Imperial Avenue, Imperial, CA 92251  
**Attn: Jenell Guerrero, Assistant to the City Manager**

## RE: Proposal for On-Call Civil Engineering Services, RFP No. 2024-04

Dear Ms. Guerrero and Members of the Selection Committee:

The City of Imperial (the City) has determined a need to secured qualified consultants to support their community's infrastructure needs for civil engineering services. Whether design, construction or operations and maintenance, the City faces many challenges in providing critical infrastructure necessary to maintain a thriving community. AZTEC Engineering Group, Inc. (AZTEC) has worked with many small communities throughout California and Arizona, and knows how to make every dollar count. In addition, we understand the importance of engineering excellence which serves as the foundation to successful project delivery. We have established a successful professional relationship with your neighbor to the south (City of El Centro) and look forward to the opportunity to serve the City of Imperial with first class client service and quality deliverables. AZTEC has thoroughly examined and become familiar with the work required in the RFP and is capable of performing quality work to achieve the objectives of the City.

**Local and Relevant Experience.** Jack Fleming, PE, our Project Manager (PM), will lead our purpose-built team. Jack is a proven leader who is accountable and dedicated to delivering quality projects within budget and on schedule. Jack grew up in the Imperial Valley and previously served as an Associate Engineer for the City of El Centro. During his tenure with the City of El Centro, Jack gained valuable local experience that can be directly applied to the City of Imperial including the project development process, key local stakeholders and public concerns. He is well-versed in the task order process and is looking forward to establishing a lasting relationship with the City through this contract.

To support Jack, we have customized a team to leverage the knowledge and experience of our technical resources to effectively meet the City's goals. Our team of subconsultants include:

- Dynamic Consulting Engineers, Inc. (DCE) - Drainage/Hydrology and Hydraulic, Construction Support, Land Surveying, Mapping, and Geospatial Services
- LandMark Consultants, Inc. (LandMark) - Geotechnical Engineering
- Carollo Engineers, Inc. (Carollo) - Water/Wastewater Support

**We champion quality deliverables on time and within budget.** Key team members were selected based on their experience, expertise, and availability. We follow well-established and time-proven procedures to manage our project work. You can absolutely rely on AZTEC to successfully deliver any task order assigned to us, on time and within budget. Our successful project delivery history along with our relevant on-call contract and project experience combined with our client-focused approach to project delivery makes AZTEC an ideal partner for the City on this contract.

We appreciate the chance to present our proposal for review by the City of Imperial. We have prepared this proposal in accordance with the instructions in your RFP as well as Addendum 1 dated July 18, 2024. All information contained in this proposal is true and correct. Our cost proposal will remain valid for a period of at least 90 days from the date of this proposal. We look forward to hearing from you and please contact me at 480.320.8265 or [jfleming@aztec.us](mailto:jfleming@aztec.us) to discuss any aspect of our Proposal.

Sincerely,

**AZTEC Engineering Group, Inc.**

A handwritten signature in blue ink that reads "Jack Fleming".

**Jack Fleming, PE, QSD, QSP**  
Project Manager | Associate Vice President  
D: 480.320.8265  
E: [jfleming@aztec.us](mailto:jfleming@aztec.us)

A handwritten signature in blue ink that reads "Michael Bruz".

**Michael Bruz, PE**  
Principal | Vice President  
D: 714.656.2805  
E: [mbruz@aztec.us](mailto:mbruz@aztec.us)



## 2. FIRM STRUCTURE AND HISTORY

### FIRMS EXPERIENCE MANAGING SIMILAR PROJECTS SIMILAR IN MAGNITUDE AND SCOPE

The following project descriptions demonstrate innovative solutions that will be applied by AZTEC to benefit the City of Imperial (the City). In these project examples, we employed cost-effective strategies, similar to those required in your scope of work. These projects represent successful partnerships with our clients - reaching performance goals and delivering within the required schedule. AZTEC has a long-standing history working in Imperial County through our City of El Centro (El Centro) On-Call Civil Engineering contract and our preliminary and final design work for the development of the Mount Signal Solar Plant, approximately five miles west of Calexico. AZTEC's proposed Project Manager, Jack Fleming is from the Imperial Valley. He is uniquely familiar with the needs of the Imperial Valley, including your project development processes, key stakeholders, and public concerns. He spent over 30 years in the Imperial Valley and will draw from his unique local experience and expertise to lead a versatile, multidisciplinary team and provide prompt attention, quality design and on-time delivery to your projects which will be invaluable to the City.

#### ON-CALL CITY ENGINEERING SERVICES (CITY OF EL CENTRO)

AZTEC is providing on-call engineering services to El Centro. Tasks have included ADA improvement analysis and design, traffic signal and HAWK designs, utility design, Subsurface Utility Engineering (horizontal and vertical locating), Preliminary Engineering conceptual studies, and Construction Administration services. To date, AZTEC has delivered the following task orders:

##### Active Transportation Plan Cycle 5 Improvements

AZTEC supported El Centro on its Active Transportation Plan Cycle 5 Improvements. This project included the design of pedestrian HAWK crossings with associated ADA ramps and sidewalks, traffic calming devices (bulb outs, narrower traffic lanes), a new traffic signal in front of the El Centro Regional Medical Center and drainage improvements. This project posed challenges pertaining to existing drainage where the bulb-outs/HAWKs were being placed and addressed existing intersection sight distance limitations where current standards were not met. New service locations were coordinated with the Imperial Irrigation District to ensure the new traffic signal and HAWK signals would have electrical service. Additional project features included the design of all signals to be compatible with a future interconnect project along Imperial Avenue. Underground infrastructure to tie into the future system was also included with the AZTEC project.

GPS controlled timing modules were added to the project to coordinate the new signals before the future interconnect project was constructed.

##### Alder Sewer Repair

AZTEC provided design review, construction support, an initial and final Preliminary Design Report, Final PS&E documents, Phase I Environmental Site Assessment (ESA) and subsurface utility engineering and utility coordination services for this project. The project included 675 lineal feet of 27" sewer main that had multiple issues including a negative slope in a previously jack-and-bored section of pipe and major surcharging in one of the sewer manholes. In addition, AZTEC assisted the City with construction support services that included construction oversight supervision, review of contractor pay applications, responding to Requests for Information (RFI's) and reviewing material submittals. Based on AZTEC's performance on the project, the City hired AZTEC to provide construction support services for an additional project that included emergency repairs of a sinkhole.

##### Dogwood Road Alignment Study

AZTEC is providing El Centro with a Preliminary Engineering Report and 30% conceptual design plans for Dogwood Road from Interstate 8 to Ross Avenue. Our scope of services includes survey, 30% conceptual plans, preliminary drainage evaluation, preliminary traffic evaluation, preliminary engineering report, right-of-way, utility coordination, and stakeholder intra/interagency coordination and permitting. A key aspect of the project involves the early identification of utility conflicts and their potential relocation costs, as well as identification of any needed right-of-way acquisitions.

#### ON-CALL ENGINEERING SERVICES FOR ROADWAY/HIGHWAY ENGINEERING (RIVERSIDE COUNTY TRANSPORTATION DEPARTMENT)

AZTEC is currently providing on-call engineering services to augment Riverside County Transportation Department (RCTD) in-house resources to deliver road improvement projects as part of the RCTD Transportation Improvement Program. Tasks have focused on roadway/highway engineering projects including drainage and subsurface utility exploration. AZTEC's task orders have included:

##### Long Canyon Road Rehabilitation PS&E

AZTEC provided engineering services for the rehabilitation of approximately one and a half miles of existing asphalt roadway on Long Canyon Road near the City of Desert Hot Springs in Riverside County. AZTEC reviewed the existing roadway pavement conditions and confirmed that the pavement structural section provided by RCTD adequately addressed the rehabilitation needs for Long Canyon Road and was later implemented in the project. In addition, AZTEC

reviewed the drainage flows/conditions and confirmed the location/limits of a recommended concrete low-water crossing of Long Canyon Road to reduce the likelihood of damage to the roadway due to stormwater flows. The analysis resulted in roadway profile adjustments near the intersection of Long Canyon and Dillon Road to include the low water crossing improvements in the project.

#### **Gillman Springs Utility/Subsurface Utility Exploration (SUE) Services**

AZTEC provided subsurface utility exploration (SUE) for 96 potholes to expose, identify and record relevant utility line information to prevent utility conflicts within the limits of the Gillman Springs Road project.

#### **Viejo Drive Storm Drain Improvement and Gully Erosion Repair**

AZTEC is managing and reviewing the work of our subconsultant on this project. The scope of work includes geotechnical investigation and materials testing services.

#### **Pauba Road Improvement Project - Road Drainage and Utility Designating and Locating**

AZTEC completed utility designating services at 28 locations along a three-quarter mile portion of Pauba Road between via Del Monte and Calle Contento. The drainage scope of work services includes the design of 11 head/wingwalls, two (2) trapezoidal and V-ditches, one (1) concrete culvert, replacement/extensions of eight (8) CMP pipes of varying diameters, and all accompanying rock slope protection.

#### **Temescal Canyon Road Resurfacing**

AZTEC is currently working on this task order that includes preliminary engineering for Temescal Canyon Road between Dawson Canyon Road and Terramor Drive (approximately 3 miles). Although primarily a pavement resurfacing project, AZTEC will also be evaluating potential roadway profile and drainage improvements at the Trilogy Parkway Intersection to eliminate ongoing stormwater ponding problems. In addition, AZTEC will be investigating and evaluating ADA deficiencies and needs throughout the corridor and making recommendations to bring the project into conformance with current ADA standards.

### **ROADWAY, BRIDGE AND TRAFFIC ENGINEERING ON-CALL (ORANGE COUNTY PUBLIC WORKS DEPARTMENT)**

AZTEC provided on-call engineering services to Orange County Public Works Department (OCPW). Tasks have included PS&E for ADA and roadway improvement projects. To date, AZTEC has delivered the following Task Orders:

#### **Santa Ana Bridge Rehabilitation**

AZTEC led the design of modifications to several bridge crossings along the Santa Ana River. Efforts included

designing minor repair or replacement components to protect the bridges from scour vulnerability and provide channel slope stability.

#### **Americans with Disabilities Act (ADA) Improvements at Orange Avenue/Gilbert Street**

AZTEC provided engineering services to upgrade the pedestrian pathway to meet ADA standards. The work consisted of preparing a PS&E package to relocate a portion of a two-foot-tall cobblestone retaining wall and reconstruct the sidewalk with an ADA compliant curb ramp.

#### **Los Patrones Parkway Wildlife Improvements**

AZTEC performed a field review of the roadway corridor and identified areas along Los Patrones Parkway (Oso Parkway to Cow Camp Road) that were potential wildlife breach points that may have been contributing to wildlife-vehicle collisions. AZTEC made recommendations for wildlife crossing types/locations and then designed improvements to provide crossings that allow wildlife to traverse the roadway corridor below the roadway to reduce the likelihood of future breaches and wildlife-vehicle collisions.

#### **Brea Boulevard Corridor Improvements**

AZTEC provided environmental services as well as preliminary and final design for wildlife crossing features for this section of Brea Boulevard which is located within a well-studied regional wildlife corridor, Puente/Chino-Hills, that connects the Santa Ana Mountains from the southeast to the Whittier Hills area to the northwest. Tasks included 15% design, final PS&E and peer reviews, and independent checks.

#### **Wagon Wheel Pavement Rehabilitation Project**

AZTEC provided engineering services for the rehabilitation of approximately 3.5 miles of residential and collector streets within and adjacent to the Wagon Wheel Community in Southern Orange County. The scope included a field pavement survey and recommendations for pavement rehabilitation methods along with plans, specifications and estimates, and design support services during construction.

### **OUR TAILORED PROJECT MANAGEMENT APPROACH TO THE CITY**

AZTEC has the right key personnel, tools and understanding to successfully deliver task orders to the City. Our approach to the scope of work includes a focus on effective project management methods, open lines of communication and a commitment to quality that will be responsive to the City in meeting all deadlines.

### **OUR PROVEN ON-CALL DESIGN EXPERIENCE ENSURES NO SURPRISES.**

From roadway to traffic to drainage and field support services, our proposed team members have extensive experience and knowledge in delivering projects that follow local and state



Figure 1. AZTEC's Firm Experience Relating to the Scope of Work Services

PROJECT	Technical Services Specific to City of Imperial's Scope of Services											
	Southern California Project	On-Call Contract/Task Orders	Civil Engineering Design	Water and Sanitary Sewer System Design/Water Quality	Traffic Engineering	Geotechnical Engineering and Structural Design	Land Surveying and Mapping/ Right-of-Way Acquisition	Landscape Architecture & Parks Design	Environmental Compliance and Permitting	Intra/Interagency Coordination and Permitting	Utilities/Potholing	Construction Support
<b>City of El Centro On-Call Engineering</b>												
Active Transportation Plan (ATP) Cycle 5 Improvements <input checked="" type="checkbox"/>	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓
Alder Sewer Repair <input checked="" type="checkbox"/>	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
Dogwood Road Alignment Study <input checked="" type="checkbox"/>	✓	✓	✓	✓	✓		✓			✓	✓	
<b>RCTD On-Call Engineering Services for Roadway/Highway Engineering</b>												
Long Canyon Road Rehabilitation PS&E <input checked="" type="checkbox"/>	✓	✓	✓	✓	✓	✓	✓					✓
Gillman Springs Utility/SUE Services <input checked="" type="checkbox"/>	✓	✓	✓		✓						✓	
Viejo Drive Storm Drain Improvements and Gully Erosion Repair <input checked="" type="checkbox"/>	✓	✓		✓			✓				✓	
Pauba Road Improvement Project - Utility Designating <input checked="" type="checkbox"/>	✓	✓									✓	
Temescal Canyon Road Resurfacing <input checked="" type="checkbox"/>	✓	✓	✓	✓	✓	✓	✓				✓	✓
<b>OCPW Roadway, Bridge and Traffic Engineering On-Call</b>												
ADA Improvements at Orange Avenue/Gilbert Street <input checked="" type="checkbox"/>	✓	✓	✓		✓	✓					✓	✓
Santa Ana Bridge Rehabilitation <input checked="" type="checkbox"/>	✓	✓				✓					✓	✓
Los Patrones Parkway Wildlife Improvements <input checked="" type="checkbox"/>	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓
Brea Boulevard Corridor Improvements	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Wagon Wheel Pavement Rehabilitation <input checked="" type="checkbox"/>	✓	✓	✓		✓	✓					✓	
<b>Project Specific/Additional Experience</b>												
City of Downey Lakewood Boulevard/Imperial Highway Intersection Improvement Project	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
LA Metro G-Line BRT Improvements	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RCTC I-15 Express Lanes Project Design Build	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓
Port of Long Beach On-Call Civil Engineering Services	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
Caltrans District 8 - Various Contracts (Project Management/Staff Augmentation; Utility Locating/Potholing; Natural Resources, Permitting, Wildlife Connectivity, and Construction Monitoring)	✓	✓	✓	✓	✓	✓			✓	✓	✓	

Project Description Provided

**AZTEC assisted the City of El Centro with the Alder Sewer Repair Project.**



processes and procedures. **Figure 1** (on the next page) in this section highlights some of AZTEC's firm experience as it relates to the scope of work elements. Our experience and proven solutions on past projects similar to those that may be assigned under this on-call will ensure cost-effective and functional designs.

### QUALITY DESIGNS - EVERY TIME

AZTEC's comprehensive QA/QC program ensures the incorporation of quality into plans by experienced professionals. Natalya Shikaloff, PE has more than 36 years of experience managing and delivering an assortment of civil engineering projects while focusing on project management, multidisciplinary design and design quality management. Natalya will lead quality control reviews on every task to ensure projects stay on schedule and result in quality, constructible designs.

### WE ARE READY TO PARTNER WITH THE CITY OF IMPERIAL

Our team members are committed and prepared to perform this work. We are excited about the prospect of working with the City on your on-call civil engineering, road/ bridge and traffic engineering needs. Our personnel are dedicated to providing sufficient time and effort to produce a quality product. With this in mind, our team members were carefully selected not only for their expertise, but also for their availability to work on the project for its duration. We follow well established and time proven procedures to manage our project work.

### KEY PERSONNEL AND STRUCTURE

AZTEC has the technical staff and management expertise that the City of Imperial can rely on to successfully complete any engineering task that may be assigned to us under this on-call. Our team of highly capable, technical, and responsive key personnel is shown in the Organizational Chart (**Figure 2 on the next page**). Team AZTEC is led by Jack Fleming, PE, QSD, QSP as Project Manager and primary contact. Resumes for our key staff members are presented in the following section of our proposal.

### Subconsultant Team

To strengthen our team and provide a full-service team available to the City for this contract, AZTEC has included several specialty subconsultant firms on our team including Carollo, DCA, and LandMark. Together as Team AZTEC, we will ensure the City of Imperial receives the quality, comprehensive services it needs to successfully deliver on its infrastructure and maintenance commitments.

### AZTEC'S CREDENTIALS AND BACKGROUND

AZTEC is a multi-discipline consulting firm with a staff of approximately 200 professional, technical, and support personnel who can provide innovative transportation solutions on any sized project. Founded in 1992, AZTEC has developed and maintained an excellent reputation in the industry as a premier engineering and environmental consulting firm that is dedicated to meeting the needs of our clients. Today, AZTEC serves key markets including energy, transportation, field services, environmental/landscape, and rail and transit. We will service this contract from these two offices: Phoenix and Irvine.

We bring broad experience in civil engineering including roadway, bridge, drainage and traffic design, as well as in environmental documentation and compliance, public involvement, surveying, utility locating and construction support. Our California history includes delivering engineering projects for the El Centro, Imperial County, OCPW, RCTD, the Riverside County Transportation Commission (RCTC), Riverside County Flood Control and Water Conservation District, Caltrans (Districts 7, 8, 11, 12) and numerous other cities and counties.

AZTEC has experience with numerous on-call contracts and understands the importance of mobilizing quickly when a task order is received, promptly assessing project challenges and identifying solutions, and providing the requested services on time and with the highest level of quality.

### LICENSE TO DO BUSINESS

AZTEC is properly licensed and has been doing business in California for more than 20 years. We are registered with the California Department of Industrial Relations for engineering (DIR Registration No. 1000023259) and Class A. General Engineering Contractor's License, No. 826065.

### OWNERSHIP OF THE FIRM

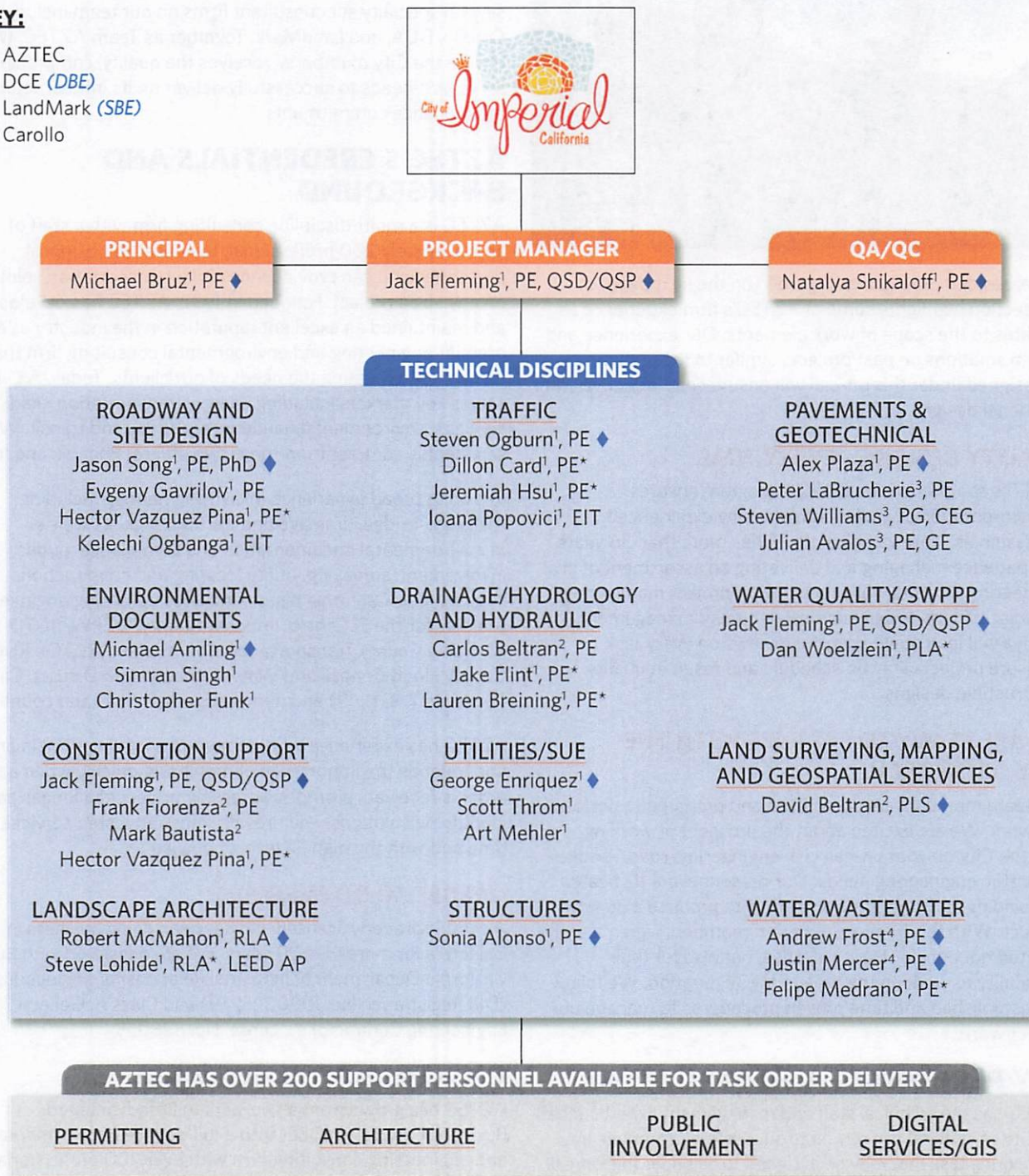
AZTEC has grown from a two-person Disadvantaged Business Enterprise (DBE) into a full-service environmental and engineering consulting firm with over 200 professional, technical, and administrative personnel located throughout our offices in California, Arizona, and Virginia. In addition, AZTEC is a wholly-owned subsidiary of TYPASA USA, LLC, an international multidisciplinary consulting firm with over 3,500 employees in 60 offices worldwide.



Figure 2. AZTEC Team Organization Chart

**KEY:**

- 1 AZTEC
- 2 DCE (DBE)
- 3 LandMark (SBE)
- 4 Carollo



♦ Key Personnel - Brief Resume Provided | \*Arizona Registered Professional Engineer/Landscape Architect



### 3. KEY PERSONNEL

## AVAILABILITY AND COMMITMENT OF STAFF

We are ready to assist the City in delivering on its infrastructure commitments to Imperial residents. Our personnel are dedicated and available to producing quality deliverables - each and every time. AZTEC guarantees availability and commitment to the City when a task order is assigned and has staff immediately available to begin working on this contract, no matter how short of notice is given. **Figure 3** shows the availability of our key staff members. We confirm that Jack Fleming as Project Manager will be responsible for planning, coordinating, and conducting the majority of the work. Team members were strategically selected not only for their expertise but also for their relevant experience and availability to work on this contract for its duration.

### AZTEC'S PROJECT MANAGER

#### JACK FLEMING, PE, QSD/QSP

**Education:** BS, Civil Engineering  
**Registrations:** CA PE No. 83573, Qualified SWPPP Developer (QSD), Qualified SWPPP Practitioner (QSP)

**Firm:** AZTEC

Jack has 14 years of experience involving civil engineering design ranging from roadway design/reconstruction to utility coordination, utility design, and pedestrian improvements. He also has extensive experience in construction administration, construction observation, and field engineering/inspections. Jack has managed projects of various sizes large and small for numerous clients throughout southern California and Arizona. He is thoroughly familiar with City of Imperial Design Standards as well as local and local government design guidelines and procedures (Caltrans). His experience includes projects for preliminary design, technical studies, PS&E, utility design and coordination, stakeholder coordination, and construction administration and inspections.



#### Relevant Experience

- **On-Call Civil Engineering Services; El Centro, CA (El Centro):** Contract/Task Order Manager for the Alder Sewer Repair Project, 2023 ATP Cycle 5 Improvements and Dogwood Road Alignment Concept task orders.
- **Road, Bridge and Traffic Engineering On-Call; Orange County, CA (OCPW):** QA/QC for the ADA Improvements at Orange Avenue/Gilbert Street. The work consisted of preparing a PS&E package to relocate a portion of a two-foot-tall cobblestone retaining wall and reconstruct the sidewalk with an ADA compliant curb ramp.

Figure 3. Availability of Key Staff

KEY STAFF MEMBER	PROJECT ROLE	AVAILABILITY
Jack Fleming, PE, QSD/QSP	Project Manager/ Water Quality/ SWPPP	70%
Michael Bruz, PE	Principal	65%
Natalya Shikaloff, PE	QA/QC Manager	60%
Steve Ogburn, PE	Traffic Lead	75%
Jason Song, PE, PhD	Roadway & Site Design Lead	75%
Alex Plaza, PE	Geotechnical Lead	75%
Sonia Alonso, PE	Structures Lead	75%
Michael Amling	Environmental Documents	40%
Robert McMahan, RLA	Landscape Architecture Lead	40%
George Enriquez	Utilities/Subsurface Utility Exploration	40%
Andrew Frost, PE	Sewer System & Facilities Design	40%
Justin Mercer, PE, QSD/QSP	Water System & Facilities Design	40%
Carlos Beltran, PE	Drainage/Hydrology & Hydraulic	40%
David Beltran, PLS	Land Surveying, Mapping & Geospatial	40%
Peter LaBrucherie, PE	Geotechnical Support	40%

- **Roadway/Highway On-Call; Riverside County, CA (RCTD):** Utility Coordination for Long Canyon Road Rehabilitation PS&E. AZTEC is providing on-call engineering services to augment RCTD in-house resources to deliver road improvement projects in the Transportation Improvement Program (TIP). Tasks have included roadway/highway engineering projects including drainage and utility exploration.

### PRINCIPAL

#### MICHAEL BRUZ, PE

**Education:** BS, Civil Engineering  
**Registrations:** CA PE No. 36198  
**Firm:** AZTEC

As a professional engineer registered, Michael brings more than 44 years of experience delivering transportation projects throughout California. His recent experience includes serving







as the Contract Manager for the City of Huntington Beach and Port of Long Beach Engineering On-Calls as well as other similar on-call contracts, such as for the Orange County Public Works, Riverside County Transportation Department, City of Rancho Palos Verdes, City of Laguna Beach, and the City of San Clemente. Michael will combine his technical and managerial skills coupled with his project delivery experience to collaborate with our team's specialists who have worked on planning and engineering projects involving roadway, drainage, traffic, structures and other civil disciplines for a variety of clients in Orange County. His relevant experience includes local streets and roads, active transportation, complete streets and roundabout projects for a variety of public and private sector clients. He is well versed in all project phases including preliminary engineering (PA/ED), PS&E preparation, construction management, value analysis and dispute resolution. Michael is adept at managing multi-discipline, multi-agency, and multi-stakeholder teams through the entire project development process.

### QA/QC MANAGER

#### NATALYA SHIKALOFF, PE

**Education:** BS, Civil Engineering  
**Registrations:** CA PE No. 42306  
**Firm:** AZTEC

Natalya brings more than 40 years of experience delivering transportation projects of all sizes and complexity. Her recent experience includes working with OCPW on the current on-call contract as well as working for RCTD, RCTC and Caltrans. She also brings 15 years of Caltrans experience at Districts 4 & 5 as a Project Manager/Engineer and a Program Manager at Headquarters. Natalya has managed and delivered an assortment of civil engineering projects while focusing on project management, multidisciplinary design and design quality management.



### TECHNICAL DISCIPLINE LEADS ROADWAY & SITE DESIGN

#### JASON SONG, PE, PHD

**Education:** PhD, Civil Engineering; MS, Transportation Engineering; MS, Software Engineering; BA, Transportation Engineering  
**Registrations:** PE CA No. 71849  
**Firm:** AZTEC

Jason is a civil engineer with 26 years of experience and project delivery skills developed over a wide variety of infrastructure projects. His experience includes project management, staff supervising and training, design review, roadway and railroad geometric design,



geotechnical and pavement analysis, traffic control design, grading, drainage, utilities, and permit applications. He also teaches as an Adjunct Professor in the Department of Civil Engineering at California State University, Los Angeles. Jason works closely with our Task Order Managers on all roadway engineering aspects. He was the Roadway Lead on the Santa Ana Bridge Rehabilitations and Curb Ramp Improvements at Orange Avenue and Gilbert Street task orders.

### TRAFFIC

#### STEVEN OGBURN, PE

**Education:** BS, Civil Engineering  
**Registrations:** CA PE No. 66455  
**Firm:** AZTEC

Steve has 24 years of project management and engineering experience and has successfully managed a wide variety of transportation engineering and analysis projects. Having both a roadway and traffic design background and experience on both municipal and freeway projects, he has the breadth of knowledge and expertise to successfully execute a diverse range of transportation projects. His expertise includes multi-agency coordination, planning, design, complex construction sequencing and traffic management (MOT) requiring 3D modeling of phase-by-phase construction, environmental integration and active public involvement. Steve fully understands the requirements of the planning and design processes and can effectively manage quality assurance and control on multidisciplinary projects. He brings well-rounded experience and has managed projects of all types of complexities, ranging from local intersection improvements to arterial streets, rural and interstate highways, and urban freeways.



### GEOTECHNICAL

#### ALEX PLAZA, PE

**Education:** MS, Tunneling; MS, Geological Engineering  
**Registrations:** CA PE No. 91450  
**Firm:** AZTEC

Alex Plaza specializes in geotechnical engineering, geo-structural design, and tunnel design. During his 14-year career, he has participated in many large international infrastructure design projects including roadways, railways, metro lines, dams, and hydroelectric power plants. His geotechnical expertise includes planning and management of geotechnical field investigations, laboratory testing programs, and subsurface data interpretation. His experience includes foundation design (large diameter drilled shafts, driven piles, shallow foundations, and retaining walls), tunnel design (TBM and NATM), dam design (earth-fill and



concrete), groundwater studies, slope stability analyses, and 2D/3D Finite Element (FE) Modeling.

## STRUCTURES

### SONIA ALONSO, PE

**Education:** MS, Structural Engineering; BS, Civil Engineering; BS, Business Administration and Management  
**Registrations:** CA PE No. 93595  
**Firm:** AZTEC



Sonia Alonso has 10 years of experience in engineering for building, bridge, and underground structures with emphasis in international rail and transit projects. She has been responsible for preparing design and analysis calculations of bridge and large buildings elements, construction plans, specifications, quantities, and cost estimates. Working on multiple international projects has given her the ability to gain experience working with various structural design standards. She has been involved in singular projects, carrying out structural designs and analysis for prestressed concrete, reinforce.

## ENVIRONMENTAL DOCUMENTS

### MICHAEL AMLING

**Education:** BS, Urban and Regional Planning  
**Firm:** AZTEC



Michael's diverse background includes over 30 years of experience in environmental planning, policy planning, and urban design. Michael has managed and assisted many multidisciplinary environmental project teams from small tasks for municipal agencies to high-profile and controversial projects throughout Los Angeles and Orange County. His experience in managing and preparing environmental documents for transportation and infrastructure projects ranges from preparing standalone technical studies, constraints and feasibility studies, and categorical exclusions (CEs) to environmental impact reports/environmental impact statements (EIRs/EISs).

## LANDSCAPE ARCHITECTURE

### ROBERT MCMAHON, PLA

**Education:** BS, Landscape Architecture  
**Registrations:** PLA CA No. 3463  
**Firm:** AZTEC



Robert has 35 years of experience as a landscape architect for public sector capital improvement projects, along

with park and recreation design, site evaluation, landscape design, construction documents, cost analysis and budgeting, project management, field review of landscape construction & installation and landscape maintenance guidelines. He has a thorough understanding of Caltrans Standards and Procedures.

## UTILITIES/SUBSURFACE UTILITY EXPLORATION

### GEORGE ENRIQUEZ

**Education:** On the Job Training  
**Registrations:** CalOSHA 8-hour Defensive Driver  
**Firm:** AZTEC



George has 17 years of SUE experience and is AZTEC's SUE Project Manager for California. His expertise is in utility designation, task oversight and delivery, while ensuring quality submittals. This includes data collection from utility owners, project planning, and support for survey and CAD departments. George routinely coordinates with clients, schedules task execution, and manages multiple work orders. He has led several projects working with California clients including on-call contracts with RCTD, Caltrans and the Eastern Municipal Water District.

## SEWER SYSTEM AND FACILITIES DESIGN

### ANDREW FROST, PE

**Education:** MBA, Business Administration; BS, Civil Engineering  
**Registrations:** CA PE No. 77724  
**Firm:** Carollo



Andrew Frost has more than 15 years of experience in civil engineering design and project management including pipelines, sewer mains, storm drains, potable/recycled water, condition assessment, dry utilities, roadway, grading, and site design. Andrew has specialized experience in wastewater projects including large septic to sewer conversion projects, wastewater lift stations, and collection system rehabilitation work. He has a proven track record of successful project management delivering on both small- and large-scale projects. He is highly versed in three dimensions design and drafting including the use of Civil 3D, Navisworks, and Building Information Modeling.



## WATER SYSTEM AND FACILITIES DESIGN

### JUSTIN MERCER, PE, QSD/QSP

**Education:** MS, Environmental Engineering; BS, Environmental Engineering

**Registrations:** CA PE No. 85583, Qualified SWPPP Developer (QSD), Qualified SWPPP Practitioner (QSP)

**Firm:** Carollo



Justin brings a broad range experience on projects including Environmental Remediation, Civil Site Design, and Water and Wastewater Infrastructure Design for municipal, federal, and private clients. His hands-on approach, passion for high quality work, and focus on team building has led to many successful projects and satisfied clients.

## DRAINAGE/HYDROLOGY AND HYDRAULIC

### CARLOS BELTRAN, PE

**Education:** BS, Civil Engineering

**Registrations:** CA PE No. 69121

**Firm:** DCE



Carlos is a co-founder of Dynamic Consulting Engineers and has been providing project management and engineering services in both the private and public sectors of the civil engineering industry. His professional and academic experience provides a broad-base, multi-disciplinary background in the field of civil engineering. Carlos is one of the principals at Dynamic Consulting Engineers and is responsible for project management and design of street improvement projects, water and sewer improvement projects, preparation of grading and drainage plans and the preparation of hydrology and hydraulic reports. Mr. Beltran has substantial experience working in municipal projects throughout Imperial County.

## LAND SURVEYING, MAPPING, AND GEOSPATIAL SERVICES

### DAVID BELTRAN, PLS

**Education:** Coursework, Civil Engineering

**Registrations:** CA PLS No. 8482

**Firm:** DCE



David is a cofounder of Dynamic Consulting Engineers and has been providing engineering and land surveying services in both the private and public sectors. His professional and academic experience provides a broad-base, multi-disciplinary background in the field of civil engineering and land surveying. David is one of the principals at Dynamic Consulting Engineers and is responsible for project management, preparation of topographic survey maps and assist in design of street improvement projects, water and sewer improvement projects, preparation of grading and drainage plan. Mr. Beltran has substantial experience working in municipal projects throughout Imperial County.

## GEOTECHNICAL

### PETER E. LABRUCHERIE, PE

**Education:** MS, Civil Engineering; BS, Civil Engineering

**Registrations:** CA PE No. 84812

**Firm:** LandMark



Peter has ten years of experience in the geotechnical field, and is responsible for project management including cost estimation and proposal preparation, preliminary site evaluation, conducting field exploration, laboratory assignments and testing, geotechnical engineering analysis (soil expansion, bearing capacity, infiltration rates, slope stability, turbine/generator foundation dynamic analysis, pavement sections, and earthwork), preparation of geotechnical reports as well as preparation of Phase I Environmental Site Assessments in the Coachella and Imperial Valleys. His field experience also includes soil infiltration and percolation testing, soil compaction testing, concrete testing, pile testing and monitoring of driving, geo-pier monitoring, deep foundation inspections and rebar inspections. Peter is also responsible for infiltration and percolation reports, septic system design, foundation plan reviews, reviewing field technician daily reports during construction and preparation of final grading and testing reports.

## 4. PROPOSED APPROACH

**AZTEC's greatest pleasure is serving our clients.** We are very familiar with the specific needs of annual services/on-call programs because of similar contracts we hold with numerous cities, counties, and agencies throughout the Southwest, including within the Imperial Valley. Our approach is built on the commitment to deliver quality services to our public works clients – every time. To that end, we have appointed Jack Fleming, PE as AZTEC's PM. **Jack has a deep understanding of Imperial, having lived in the area for nearly 30 years. His strong community ties and local work history offer the City of Imperial an incredible asset of a PM who can tailor our project approach to the needs of the City and the community.**

**Special Processes, Tools and Lessons Learned:** AZTEC understands the importance of a proactive and expedited approach for gathering public input, preparing conceptual alternatives, developing preliminary design documents as well as preparation of the final design plans, and specifications and estimates (PS&E). AZTEC's project development process was specifically developed to handle these types of short turnaround projects.

We understand that, like many public agencies, Imperial is under tremendous pressure to meet the demands of the public to deliver projects within, or ahead of, programmed completion dates. We have a proven reputation for maintaining the most aggressive schedules while successfully delivering under strict/agreed to schedules and budgets to satisfy the scope of work and public for each project.

Scope, schedule and budget all go hand in hand, and all need to be monitored in parallel. A key to our success is a proactive approach tailored to project-specific issues from lessons learned that historically threaten schedules and budgets, such as right-of-way (R/W), utilities, and environmental compliance.

AZTEC takes project costs and schedule commitments very seriously. Drawing upon our lessons learned from previous project experience, we will apply the following strategies to satisfy the scope of work for Imperial:

- ✓ Identify and aggressively address critical path or required tasks
- ✓ Foster team-spirit and accountability toward deliverable deadlines
- ✓ Facilitate kick-off meetings with all stakeholders to establish communication links and agreement on project objectives and schedule
- ✓ Assign/conduct QA/QC well before submittals
- ✓ Maintain close contact with the City PM and technical staff for consensus building
- ✓ Routine team progress meetings (internal discussions)

Jack Fleming will monitor detailed work assignment schedules to ensure the project activities are progressing toward the milestones and take corrective action if necessary. He will routinely collaborate regularly with the assigned City PM to keep them apprised of the latest developments, along with identifying any challenges and proposed corrective measures that need to be implemented to ensure that the overall schedules are not jeopardized.

**Communication and Coordination:** Our internal process begins with our regular weekly meetings where AZTEC's PM and technical leaders meet to review the current status of projects as well as determine resource needs and availability across civil design disciplines, as well as address any necessary action items. With the proven ability to communicate on all levels of management and technical disciplines, Jack – working side-by-side with Michael Bruz, our Principal – will ensure that each work assignment has the necessary resources to successfully complete all efforts. Our weekly meetings focus on scope, schedule and budget issues and they also track resources and encourage communication between all project staff.

Our project management approach focuses on client communication and coordination. As the projects progress, we will document our issue evaluations and recommended solutions, which is then provided to the City's PM(s), allowing them to be. Ultimately, this allows the Imperial PM to make efficient and timely decisions.

With various stakeholders having an interest in each project, it is expected there may be conflicting opinions, comments, and project requirements that will need fast and effective resolution. Our approach to reaching consensus is to provide Imperial and other key stakeholders with Team AZTEC's expertise and relevant information to assist with making informed decisions. We do this by evaluating the specific conflict and responding in one of two ways: 1) provide detailed recommendations with proposed solutions, and 2) provide alternatives with a summary of the pros and cons.

**TEAM AZTEC IS VERY FAMILIAR WITH KEY STAKEHOLDERS IN THE IMPERIAL COUNTY AREA, INCLUDING THE IMPERIAL IRRIGATION DISTRICT, CALTRANS DISTRICT 11 LOCAL ASSISTANCE, IMPERIAL COUNTY TRANSPORTATION COMMISSION, LOCAL UTILITY COMPANIES, AND ADJACENT MUNICIPALITIES.**

Jack will ensure that the task orders issued by the City of Imperial will be top priority, as he believes smaller markets are just as, if not more, important than larger market projects.



Through his experience, he knows that small market projects can sometimes be placed on the back-burner when it comes to priority in the eyes of consultants; however, Jack understands that many issues come in to play with municipal projects such as funding deadlines and Federal/ State invoicing requirements. He will ensure that the City of Imperial does not fall risk to not meeting deadlines with Caltrans, FHWA, or internal budget schedules.

AZTEC can provide the City with the full range of services described in Scope of Services as shown in the RFP. To augment our in-house resources, we have included the services of three specialty subconsultants. These subconsultants (DCE, LandMark, and Carollo) are described in detail in Section 5 - Subconsultants. With respect to any additions or modifications to the Scope of Services, AZTEC can also provide digital, GIS, electrical, public involvement, potable water and sewer design, landscape architecture, Caltrans coordination, utility potholing, and environmental documentation, and permitting services.

We continuously strive to be much more than an engineering firm. We are collaborative group of professionals and challenge the City to get the most out of AZTEC by utilizing our experience and expertise to maximize value and lessen the impacts each project assigned to us may have on residents, business owners and the traveling public. Our goal is to be a trusted partner with the City in successfully developing and delivering its infrastructure, but also to be a convenient "one-stop shop" and provide on-call consulting services ranging from conceptual planning to design and construction administration as may be requested by the City.

## TASK ORDER MANAGEMENT

Leadership is key to the successful management of any contract and even more so on contracts that may involve multiple task orders and disciplines. Successful project delivery starts with assigning a skilled task order manager who is responsive to the needs of the City and builds an effective team.

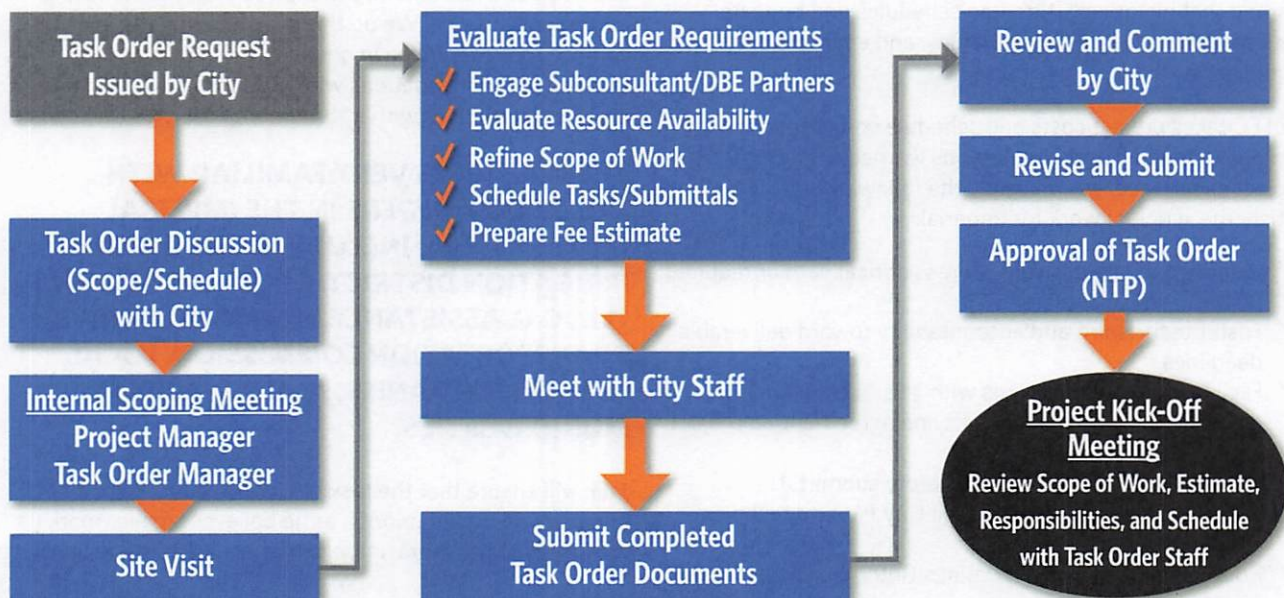
Jack Fleming, PE will serve as AZTEC's Project Manager based upon his management abilities successfully demonstrated on similar on-call contracts. Combining his expertise and engaging communication style with an experienced team of professionals will result in quality, effective and efficient task order delivery to the City. He will be supported by a highly qualified team that will develop the planning and/or technical documents associated with their respective service areas.

Quality control will be led by Natalya Shikaloff, PE. Quality checks will be performed throughout all phases of each task order to ensure accuracy of the deliverables, and to ensure that budget and scheduling goals are being met.

## TASK ORDER APPROACH

The AZTEC team will utilize the proven techniques that have been proven successful on previous on-call contracts throughout Southern California, including the Imperial Valley. Upon notice of a task order, our project manager will coordinate with City staff to discuss the task order approach (Figure 4 below), objectives, schedule and budget. We will come to a "meeting of the minds" and after discussing each task order(s) with the City, our Project Manager will provide a written scope of services and professional fee required to complete the assigned task order.

Figure 4. Task Order Flow Chart





**METHODOLOGY**

AZTEC is very familiar with local design policies, standards, and procedures to meet schedules and budgets. General civil engineering projects typically include a variety of design tasks related to the alignment, profile, and construction

sequence of the project. Work efforts for each task order will be performed in a logical sequence to be efficient. The implementation process for engineering projects can be divided into two distinct phases: Preliminary Engineering and Final PS&E, as summarized in **Figure 5** and **Figure 6** (below).

Figure 5. Task Order Process During Preliminary Engineering Phase

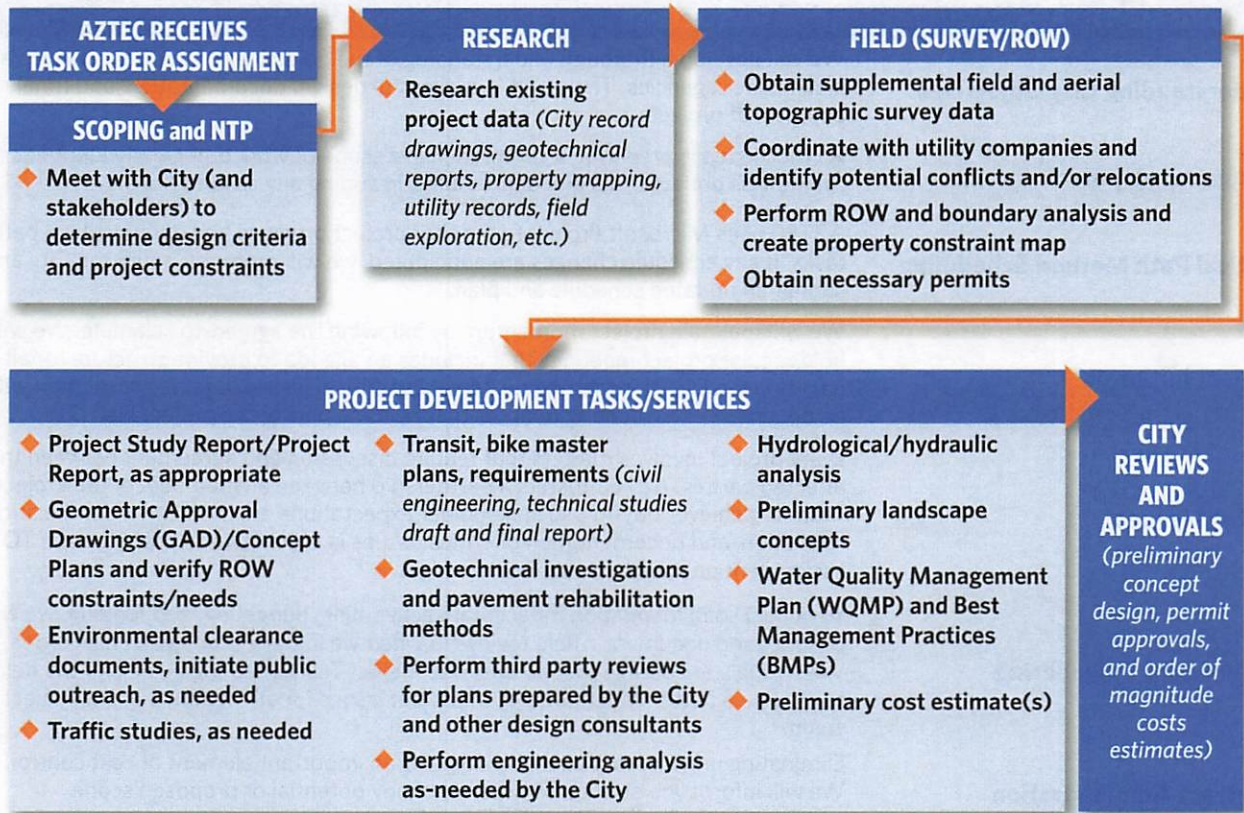
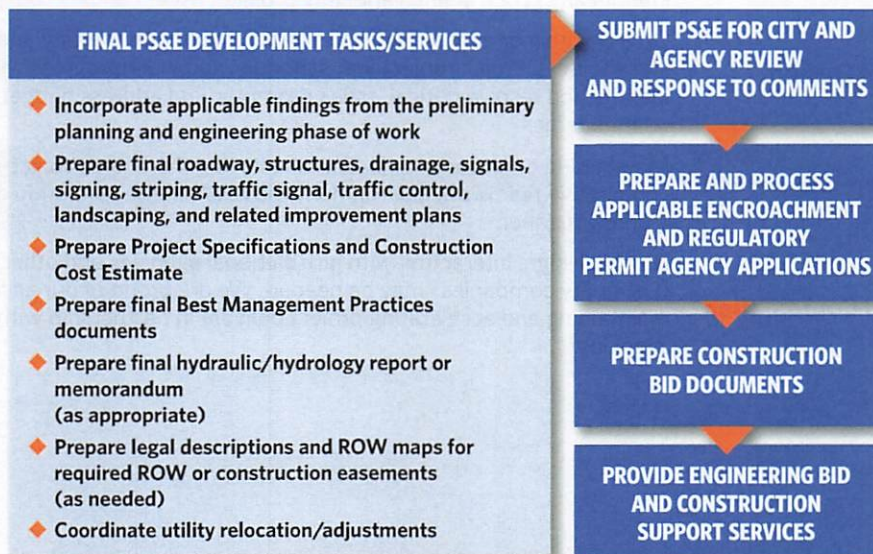


Figure 6. Task Order Process During Final PS&E Development





## MANAGEMENT APPROACH

Our management approach, as summarized in **Figure 7** (below) has been proven to be effective in meeting or exceeding client goals for specific assigned tasks on schedule and on budget. With an effective management approach coupled with close coordination with City staff, each task order will progress seamlessly through the various work tasks.

Figure 7. Keys to TO Success

MANAGEMENT TASK	KEYS TO SUCCESS
<b>Understanding City Objectives</b>	We will develop a thorough understanding of the objectives of the City and any/all stakeholder agencies. The result is successful design, documentation, and timely approval of projects.
<b>Scope Development</b>	A crucial step is preparing a comprehensive scope of work that clearly identifies the various project tasks and deliverables, including any assumptions.
<b>Critical Path Method Scheduling</b>	AZTEC uses Microsoft Project to monitor project progress and define critical path tasks. If any schedule changes are anticipated, we will promptly notify the City and submit an updated schedule and plan.
<b>Project Initiation</b>	We will maintain project momentum by following the agreed-to schedule. We will hold regular project meetings that includes an agenda to provide structure for all participants. Decisions regarding items and critical issues requiring resolution will be documented in meeting minutes that become part of the project file.
<b>Critical Issues</b>	Every project involves matters that require discussion and agreement between the affected parties. AZTEC fosters a partnership between all members of the Project Team to achieve "buy-in", so stakeholder expectations are met. Early identification, resolution, and documentation of critical issues is imperative to keeping each TO assignment on schedule and within budget.
<b>Preliminary Engineering</b>	To build a solid foundation for accurate scheduling, budgeting, and funding, we will conduct and document a field review(s) when we initially scope each task order. We strongly encourage that at least one Project Team Meeting be held in the field to provide a better understanding of project issues for all members of the Project Team.
<b>Contract Administration</b>	Eliminating unnecessary design changes is an important element of cost control. We will inform you as soon as possible of any potential or proposed scope revisions that will affect the established budget.
<b>Budget Control</b>	Regular monitoring through AZTEC's Deltek Accounting System will help to identify any scope change affecting project costs.
<b>Project Progress and Design Review Meetings</b>	On a monthly or as-needed basis, we will meet with the City and other involved stakeholders. Project objectives, schedule, and work progress will be discussed to identify and resolve critical issues promptly, and address budget issues and other related items.
<b>Coordination and Communication with Public Agencies</b>	Maintaining open communication and having the entire Project Team commit to a cooperative teamwork environment will result in the resolution of critical issues in a timely manner.
<b>Project Delivery and Coordination</b>	During design, interaction with jurisdictional agencies and other affected entities (i.e., utility companies) may be needed. We are proud of our accomplishments in maintaining and accelerating project delivery in partnership with our stakeholder agencies.

## COST-SAVINGS/VALUE-ADDING STRATEGIES AND INNOVATIONS

### COST SAVINGS STRATEGIES

In the current economic climate with considerable price volatility, it is imperative that the City maximizes the value of every dollar invested in its infrastructure. AZTEC will keep a close eye on the City’s pocketbook. Examples of areas where AZTEC has provided clients with cost savings include:

- Materials (utilizing HDPE pipe in lieu of RCP)
- Pavement structural section (alternative sections that might include full depth asphalt or strengthened subgrade)
- Project duration (longer closures/detours to allow for more work to be completed at one time)

### INNOVATION/VALUE-ADDED STRATEGIES

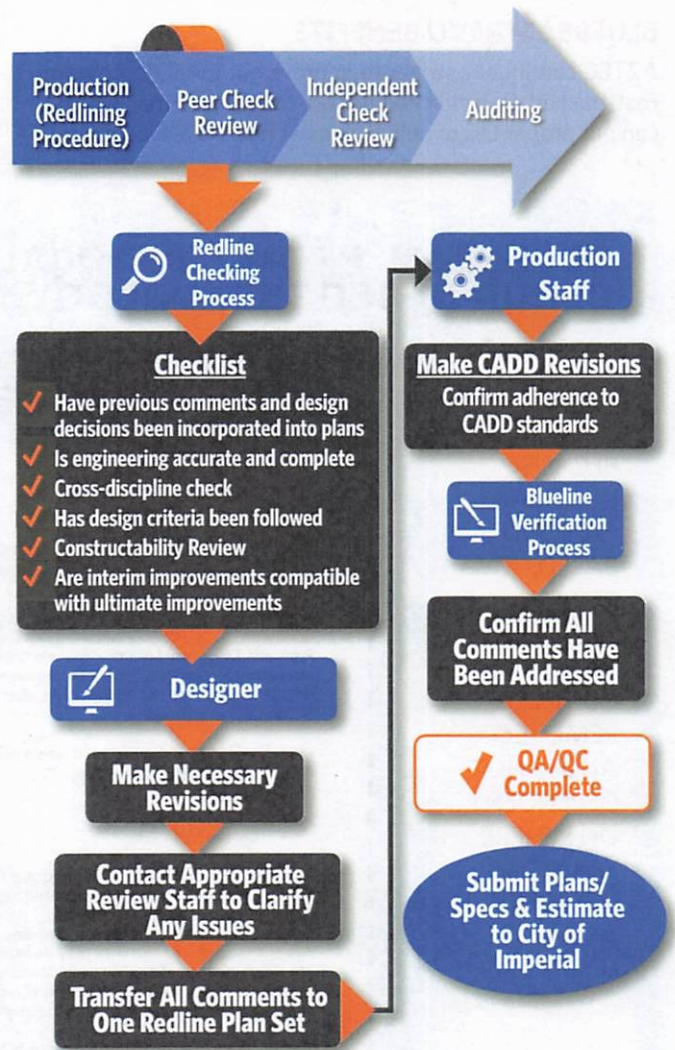
The time to begin consideration of innovative and/or value-added strategies is during initial scoping. AZTEC knows that a thorough and clear understanding of the goals and objectives of each task order is imperative to effective and successful delivery. For example, in a highly trafficked area, full depth asphalt might be used to reduce the construction duration and resulting inconvenience/impacts to motorists. Another example might be the use of dry stack stone retaining walls in lieu of masonry or concrete (benefits include aesthetics and sustainability). Stormwater capture and water quality could include vegetated median or roadside swales. In the end, bringing innovation and/or value-added strategies to each specific task order is highly dependent on the type of work it encompasses (water/sewer, stormwater, roadway, traffic, geotechnical). AZTEC has a proven record of “thinking outside the box” and bringing value to every project it undertakes.

## QUALITY CONTROL PLAN

AZTEC has a comprehensive quality control process that is followed on all projects, large or small. We know that implementation of a comprehensive and well-executed Quality Control Plan (QCP) will result in superior quality deliverables, shorter review times and satisfied clients. AZTEC weaves Quality Assurance/Quality Control (QA/QC) efforts throughout the fabric of our project development process (Figure 8). Our QCP is intentionally structured, so that all work is done correctly the first time and all design documents and reports comply with contract requirements, meet design criteria, and reflect good engineering practice. All team members, including our subconsultants, receive a copy of the QCP outlining responsibilities and procedures for preparing and checking all documents. AZTEC’s effective QCP ensures a high-quality final product because we audit the completion of these requirements.

- ✓ **Independent Design Check:** Experienced engineers with a thorough understanding of project requirements will perform design checks independent of the document originator.
- ✓ **Discipline and Interdisciplinary/Constructability Reviews:** Will be performed for discipline-specific quality, coordination between disciplines, and constructability considerations while ensuring environmental compliance.
- ✓ **Quality Assurance Audits:** Audits will be routinely performed so we can ensure all formal submittals follow the QA/QC procedures.

Figure 8. AZTEC’s Quality Control Process







## PROMOTING QUALITY DELIVERABLES THROUGH CLOUD-BASED TECHNOLOGY TOOLS

Constant, responsive, and proactive communication is key for any contract, but especially for projects/tasks that are time sensitive. We champion practices like over-the-shoulder (OTS) reviews to promote project collaboration in real time. However, OTS reviews are not always possible. To maximize opportunities to advance the project's schedule while maintaining quality, AZTEC uses a variety of collaborative, cloud-based tools to assist us in our delivery including an AZTEC FTP (for large file sharing), Microsoft Teams, OneNote, OneDrive, SharePoint, and Bluebeam Revu.

### BLUEBEAM REVU BENEFITS

AZTEC continually strives to improve our QA/QC program. Fast-tracked project schedules are the new normal, which can put proper QC of deliverables at risk. As a supplement

to our Quality Control Plan, we have developed a very efficient procedure to utilize the software Bluebeam Revu as part of our internal review. Bluebeam allows for cloud-based, real-time document review, response, and verification that tremendously reduces the time and administration of traditional comment documentation processes via spreadsheets or word documents. Bluebeam reduces the duration of the review-response-resolve process as there is no delay while documents are compiled and delivered because review is centralized in the cloud and is completed in real-time. Bluebeam also collects the comments directly on the files being reviewed, which improves comment understanding and facilitates quick follow up action. This substantial efficiency and flexibility improvement further ensures our QA/QC Plan is implemented properly on all deliverables, with the added benefit that completeness of review can be easily audited.

## BLUEBEAM: PROMOTING QUALITY DELIVERABLES THROUGH CLOUD-BASED TECHNOLOGY TOOLS

SIMULTANEOUS COMMENTS CAN BE PROVIDED BY MULTIPLE REVIEWERS AT ONE TIME.

BECAUSE BLUEBEAM IS CLOUD-BASED, REVIEW SESSIONS CAN BE COMPLETED REMOTELY AND IS NOT DEPENDENT ON WHERE TEAM MEMBERS ARE LOCATED.

- Pecos Park
- Mountain View Park
- Price Park
- Pecos Ranch Park
- Tumbleweed Park
- LOS Arobles Park
- Arbuckle Park

other actions that would to

No closures or substantially impede access of these parks are anticipated as a result of this project. Furthermore, no ROW or easements from these properties will be required. Two multiuse facilities, Zanjero Park and Discovery District Park, are located adjacent to the SR 202L. Though these facilities are used for recreational purposes, their primary use, as designated by the underlying landowner (ADOT), is as a retention basin for the freeway. As such, Zanjero Park and Discovery District Park are not considered Section 4(f) properties.

Four recreation trails are located within the project vicinity:

- Maricopa/Sun Circle Trail
- Paseo Trail
- Santan Freeway Trail
- Santan Vista Trail.

If this is the logic, how are the trails along the canals 4(f) when the underlying purpose is conveying irrigation water?

The Maricopa/Sun Circle Trail is located along the Consolidated Canal and is included in the Maricopa County Regional Trail System Plan (adopted August 12, 2004). Additionally, this section of the Consolidated Canal is also associated with the City of Chandler's Paseo Trail (Chandler General Plan, 2016) that provides 6.5 miles of multi-use pathway for walkers, joggers, stroller-pushers, bicyclists, and horseback riders. Potential trail closures may be warranted during work on the Consolidated Canal Bridge. If closures are warranted, coordination with Maricopa County Parks and Recreation, City of Chandler, Salt River Project, and Bureau of Reclamation is recommend during final design to determine 4(f) impacts and if any necessary considerations (e.g. detours) shall be undertaken.

The Santan Freeway Trail is 9.2 miles in length along the SR 202L connecting to parks within the area and the Gilbert Medical Campus. The Santan Vista Trail is along the Eastern Canal and is 9.16 miles and links

## CAPABILITIES, EXPERIENCE, AND KNOWLEDGE OF LOCAL, STATE, AND FEDERAL PROCESSES

We understand that the projects anticipated to be included in this on-call contract will require an efficient, committed and competent team to execute each task order under a strict budget with a well-defined scope and schedule. Furthermore, we recognize that the Consultant's primary responsibility to the City is to provide high quality planning and design services for assigned projects in accordance with the latest City's adopted policies and procedures. Having worked on countless projects over the past 30 years, AZTEC and its subconsultant partners are very familiar with local, state and federal guidelines, procedures and funding requirements.

With that objective in mind, AZTEC utilizes techniques that have been proven successful on previous on-call contracts throughout Southern California. Upon receipt of a potential task order assignment, our Project Manager (Jack Fleming, PE) will review the proposed assignment and as necessary, will meet with the City to discuss the objectives, schedule, and budget. Jack's approach is to ensure we're in lock-step with the City to provide a comprehensive scope of services, fee and design delivery schedule required to complete the assigned task order. The scope, schedule and fee for each task order will clarify (at a minimum): work breakdown and scope, project team roles, fees (consistent with the approved hourly rate schedule), design criteria and standards and assumptions.

Ultimately, the City's Project Manager will approve the task order proposal and AZTEC will not begin work until the Work Authorization for the specific task order has been signed by the appropriate individual at the City and returned to Jack Fleming, AZTEC's Project Manager. Whether a specific task order is directly led by AZTEC or one of our subconsultants, Jack will coordinate with his Task Order Manager(s) to assure the City that all services provided by Team AZTEC are of high quality, and not only in conformance with the agreed scope of work, schedule, and budget, but also to the City's standards, practices, and QA/QC Plan.

AZTEC can provide the full range of services needed to take a project from the planning phase to environmental clearance through Final Design/PS&E follow a straightforward process with the City regarding initiating and obtaining approval (notice to proceed) for each task order assignment. As shown in **Figure 4** "Task Order Flow Chart" (page 4), individual project assignments begin with the City issuing a task order request, subsequently the process proceeds with interactive communication between the City and AZTEC and concludes with a project kickoff meeting and initiation of the task order work.

Internal to the AZTEC team, our work plan approach can be summarized in a few simple steps:

- Identify the design team personnel best suited for the task order
- Define the task order objective (the project's purpose & need)
- Confirm the task order needs and deliverables
- Determine needed resources and assign tasks (staff / firms)
- Identify potential issues and risks that could impact task order delivery, cost or timeline
- Develop a draft schedule and get buy-in from the task order team
- Execute and monitor the task order
- Regularly course correct (as needed) to keep the task order on budget and on schedule

In addition, updated status reports will be included with the monthly invoice(s) to provide a discussion of the project with appropriate updates, schedule, budget, critical path items, potential out-of-scope items, and corrective actions (if needed to facilitate progress of the work order).

### STEPS TO SECURING FEDERAL FUNDING

If federal funding is involved in the task order, there are some additional steps that are required to satisfy funding requirements and along those lines, documents of particular relevance to this contract include:

- Caltrans Local Assistance Procedures Manual (LAPM)
- Caltrans Local Assistance Program Guidelines (LAPG)
- Caltrans Standard Environmental Reference (SER)

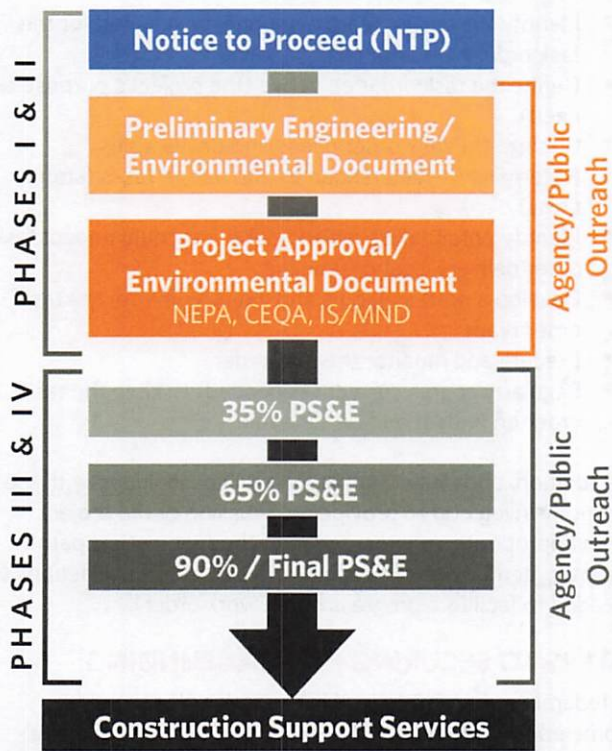
Several of the projects that our team has successfully delivered included federal funding (funded through FHWA and administered by Caltrans), including the I-15 Express Lanes Design Build Project. We have extensive involvement in federally funded projects ranging from funding procurement to obtaining funding authorization (E-76), PA/ED (NEPA/CEQA Processes), PS&E/ROW/Utility Certifications, resource agency permits, implementation and verification of environmental commitment records, bid and construction support and project close-out, and therefore bring firsthand knowledge for the benefit of the City.

As appropriate, AZTEC will perform a critical review of the adequacy of programmed funding with the latest cost estimates and scope of work. We will evaluate and confirm that the project scope and limits are within those eligible for federal reimbursement.

In general, when federal funding is involved in the task order, the steps Team AZTEC will employ are discussed below and summarized in **Figure 9** on page 18.



Figure 9. Project Development Process – Phase I to Phase IV



Within these four phases of the project lifecycle, there are three important milestones in the federal aid process that include:

- NEPA Approval and Federal Permitting (Environmental Compliance)
- PS&E Approval (Plans Ready to Let)
- Final Acceptance (Project Closeout)

Since federal funds are not typically provided up front but rather are reimbursements for pre-approved projects, LACPW must achieve all three milestones in order to obtain all approved federal aid.

### PHASE I - PRELIMINARY ENGINEERING

Efforts included in this phase consists of, but are not limited to, the following:

- Field Review
- Aerial Mapping
- ROW
- Geotechnical Research
- Utility Data Collection
- Preliminary Hydraulics
- Geometric Approval Drawings
- Bridge Advance Planning Studies/Type Selection
- Preliminary Environmental Study Checklist
- Construction Cost Estimate
- Preparation of the Federal Forms

### PHASE II – ENVIRONMENTAL DOCUMENT (NEPA/CEQA)

A typical environmental approach to clear a project assumes the following for the City:

- Prepare and process an Initial Study (IS)/Mitigated Negative Declaration (MND) in accordance with CEQA and a CE and supporting technical studies
- Conduct (if appropriate) appropriate air quality and traffic studies to evaluate Vehicle Miles Traveled (VMT), if the roadway is being widened or identified as capacity increasing
- Complete additional technical studies as identified through the IS review and preparation process (e.g., Noise, Natural Resources, Cultural Resources, etc.)
- LACPW will serve as the local lead agency for the processing and certification of the Environmental Documentation that Caltrans District 7 will serve as the reviewer and approval agency for NEPA documentation (through NEPA Assignment)
- Prepare all documentation pursuant to Caltrans Project Development Procedures and Workflow Tasks Manuals (including the PR Guidelines), and Standard Environmental Reference web page, and RCTD’s guidelines for implementing CEQA

We recognize that completion of NEPA/CEQA compliance, technical studies, and approvals will likely be critical path items that are needed to proceed with final design. Michael Amling will serve as our Environmental Lead. He will maintain accountability through active involvement in internal and external meetings and will be available throughout the project development to communicate with project stakeholders including regulatory agencies, local municipalities, Native American Tribes (AB52 and/or Section 106), and additional Federal Agency’s (e.g., BLM, US Forest Service, US Army Corps of Engineers), as required.

The engineering and environmental team will collaborate early and on a regular basis to ensure environmental constraints and issues are identified early in the design process to ensure avoidance/minimization and proactive solutions are developed early in the project development.

Based on our experience, most on-call projects would be cleared as a Categorical Exclusion (CE), as the appropriate level of NEPA documentation for projects with a federal nexus. Team AZTEC will ensure the CE conforms to the requirements of the Caltrans Local Assistance Procedures Manual. These draft and final documents will be prepared for circulation and approval by Caltrans, via LACPW. We would develop a concise and data-supported message to identify what the transportation needs are and how this project will address them. Preparing the purpose and need statement at the project development process’s inception will allow the team to proceed with a single purpose and deliver a unified message to outside stakeholders and the public.



### PHASE III & IV - FINAL PS&E/RIGHT- OF-WAY/ UTILITIES

This phase encompasses a broad scope of work that includes, but is not limited to, the following:

- Bridge Type Selection
- Permitting
- Right-Of-Way
- Utility Relocations
- Design Field Survey
- Geotechnical Field Investigation and Report
- Hydraulics
- Floodplain Location Hydraulic Study
- Floodplain Encroachment Report
- Hazardous Materials
- PS&E (including, but not limited to, roadway, grading, paving, drainage, structural design, traffic signing, delineation, street lighting, utility design, erosion control, and construction traffic control)



## 5. SUBCONSULTANTS SUBCONSULTANT TEAM

To augment our team, AZTEC has assembled a talented group of subconsultants that share our commitment to client service and quality deliverables. Our subconsultants bring a strong resume of relevant experience and specialty expertise to this contract. Together as Team AZTEC, we will ensure the City receives the quality, comprehensive services it requires. Team members were strategically selected not only for their expertise but also for their relevant experience and availability to work on this contract for its duration. AZTEC understands that any change in subconsultants will be subject to review and approval of the City prior to execution of any task orders under this agreement.

**Our subconsultants strengthen our team.** Our team is supported by a highly qualified group of subconsultants who bring specialized expertise and experience to the City. Our subconsultants include:

- Carollo - Water/Wastewater Support
- DCE - Drainage/Hydrology and Hydraulic, Construction Support, Land Surveying, Mapping, and Geospatial Services
- LandMark - Geotechnical Engineering

Of note, AZTEC carefully selected two local subconsultants based on their ability to complement our team: DCE for survey, utility and field support services, and Landmark Consultants, Inc. for geotechnical engineering. They have well-earned reputations for delivering excellence.



### Carollo Engineers, Inc.

**Contract Role:** Sewer Rehabilitation and Installation, Water Rehabilitation and Installation

**Contact:** Andrew Frost, Associate Vice President, 858.754.5941, afrost@carollo.com

**Office Location:** San Diego, CA

Founded in 1933, Carollo is among the top 10 firms in the United States dedicated solely to water and wastewater engineering. Carollo has supported the planning, design, construction, and startup of wastewater treatment plants across the country, regardless of size, type, or purpose. We commit our unparalleled experience and knowledge to meet each organization and community's unique wastewater needs now and into the future. Carollo offers comprehensive process expertise in both conventional and emerging technologies with an unwavering focus on excellence in facilities planning and design.

Carollo's staff numbers more than 1,500 employees including more than 850 registered engineers. Carollo is a full-service company with the experience and qualified professionals to successfully manage projects of any size. Our staff includes civil, environmental, electrical, mechanical, chemical, structural, control systems, and corrosion control engineers, as well as architects, planners, scientists, CAD designers, and specialists in other areas such as finance, asset management and regulatory negotiations.

Carollo's recent and relevant experience includes:

- County of San Diego Department of Public Works, Los Coches Creek Sewer Improvements
- County of San Diego, Spring Valley Trunk Sewer Rehabilitation
- Carlsbad Municipal Water District, Adams Street Limited Access and Fire Flow Improvements
- City of Sunnyvale, Water Main Replacement
- Eastern Municipal Water District, Indian Street Sewer Crossing

### Carollo's Value to Imperial and AZTEC

- ✓ Carollo has executed thousands of on-call contracts with hundreds of municipal agencies
- ✓ Carollo has worked with more than 50 clients on on-call contracts throughout California, including in the Imperial Valley
- ✓ Carollo is 100 percent water-focused, resulting in a level of understanding of key issues that few can match
- ✓ During Carollo's 91-year history, it has planned and designed new or improved facilities for more than 300 wastewater treatment plants



### Dynamic Consulting Engineers, Inc. (DBE)

**Contract Role:** Drainage/Hydrology and Hydraulic, Construction Support, Land Surveying, Mapping, and Geospatial Services

**Contact:** Carlos Beltran, PE, President, 760.545.0162, cbeltran@dceinc.pro

**Office Location:** Imperial, CA

DCE is a professional corporation that provides multidisciplinary engineering, land surveying and construction management services. DCE professional engineers and land surveyors have substantial experience working in large-scale capital improvement projects throughout the Southern California's desert region. DCE continues to provide exceptional service to the public and private sectors and continues to work well with Imperial Valley public agencies including local cities, county and water and irrigation districts.



DCE has been providing engineering services to the City of Imperial for over 13 years. Services include design of street improvement projects, construction management and inspections and plan checking services.

DCE's recent and relevant experience includes:

- County of Imperial, Niland Main Street Improvements Projects Phase 1 and Phase 2
- City of Imperial, On Call Plan Check
- City of El Centro, Imperial Avenue Extension Construction Management and Inspections Services
- City of Brawley, Ocotillo Springs Class II Bike Lanes and Sidewalks Installation
- City of Calexico/CA Dept. Water Resources, New River Improvement Project - Calexico Reach

**DCE's Value to Imperial and AZTEC**

- ✓ DCE is located in the City of Imperial and has been providing Engineering and Survey services to the City of Imperial for over 13 years
- ✓ DCE has a good working relationship with all local public agencies and private utility companies
- ✓ DCE has the resources for rapid response for any City Project emergencies



**LandMark Consultants, Inc.**

**Contract Role:** Geotechnical Engineering  
**Contact:** Randy Lyon, President/Field Operations, 760.370.3000, rlyon@landmark-ca.com,  
**Office Location:** El Centro, CA

LandMark is a consulting firm providing geotechnical engineering and construction materials testing services in the Imperial, Riverside, and San Bernardino County areas of Southern California. The firm was incorporated in El Centro in 2003 with staff assembled in association with Southland Geotechnical since in 1987. The staff of LandMark's El Centro office has been operating together since 1982.

LandMark offers a broad range of consulting services on diverse projects in both the public and private sectors. The firm specializes in geotechnical engineering, engineering geology, soils and construction materials testing, and inspection services. Typical clients include water agencies, municipalities, industrial plants, power generation companies, commercial and subdivision developers, architects, engineers, the military, and construction companies.

LandMark's recent and relevant experience includes:

- City of Imperial, Aten and Dogwood Roads Intersection
- Imperial Irrigation District - Canal Lining, Hydroelectric Plants, Reservoirs, Pipelines
- Imperial County Public Works - Multiple Bridges and Roadway Improvement Projects
- Imperial Water and Wastewater Treatment Plants
- City of El Centro, Buena Vista and Euclid Avenue Street Improvements
- City of Calexico, Cole Road Improvements - Dogwood Road to Railroad Tracks
- City of Salton City, Hwy 86/S. Marina Drive Signalization
- City of Brawley, West Lake Parking Lot Improvements

**LandMark's Value to Imperial and AZTEC**

- ✓ LandMark has earned the reputation for high quality, cost effective, and responsive technical and professional service
- ✓ LandMark provides geotechnical consulting services for small and large projects including those with challenging site conditions and issues
- ✓ LandMark staff works with clients and other involved parties to develop strong working relationships based on integrity, mutual respect, and the shared commitment to designing and constructing noteworthy projects



## 6. CLIENT REFERENCE LIST

### REFERENCES

**AGENCY NAME & ADDRESS:** City of El Centro, 1275 W. Main Street, El Centro, CA 92243

**CONTACT:** Abraham Campos, City Engineer/Public Works Director, [acampos@cityofelcentro.org](mailto:acampos@cityofelcentro.org), 760.337.5182

**PROJECT:** **On-Call Civil Engineering Services**

AZTEC is providing on-call civil engineering services to the City of El Centro and is providing services for three projects under this on-call. [Full description provided on Page 2.](#)

**SIMILAR/RELEVANCE:**

- ✓ Alternatives Analysis and Multimodal Final Design
- ✓ Coordination with Various Agencies, including transit
- ✓ Significant Public outreach/involvement
- ✓ Traffic Analyses Construction Cost Estimates
- ✓ Key Personnel - Jack Fleming, Steven Ogburn

**DATES:** 2021 - Present

**AGENCY NAME & ADDRESS:** City of Phoenix Street Transportation Department, 1034 E. Madison Street, Phoenix, AZ 85034

**CONTACT:** Leticia Vargas, PE, Special Projects Administrator, [leticia.vargas@phoenix.gov](mailto:leticia.vargas@phoenix.gov)  
602.534.5692

**PROJECT:** **Happy Valley Road Preliminary Engineering Report - 35th Avenue to 67th Avenue**

AZTEC provided the City with engineering services for the preliminary design and analysis of Happy Valley Road between 35th Avenue and 67th Avenue to conceptually illustrate the improvements needed to complete this major arterial and minimize costs. Work included roadway widening, addition of curb/gutter, sidewalk, scenic trails, raised medians, bus pads, street lighting, traffic signals, and upgrades to pedestrian facilities. AZTEC was able to provide the City with a detailed cost estimate, allowing final design to move forward and construction to be completed within the project limits..

**SIMILAR/RELEVANCE:**

- ✓ Extensive quality reviews
- ✓ Compressed schedule and adherence to budget
- ✓ Key Personnel - Jack Fleming, Hector Vasquez Piña

**DATES:** 2020 - 2021

**AGENCY NAME & ADDRESS:** Los Angeles County Public Works, 900 S. Fremont Avenue, Alhambra, CA 91803

**CONTACT:** Marty Amundson, Senior Civil Engineer, 626.300.2012, [mamund@dpw.lacounty.gov](mailto:mamund@dpw.lacounty.gov)

**PROJECT:** **I-605/Valley Boulevard Traffic Interchange Improvements**

As part of this project for LA Metro, AZTEC is working with LA County Public Works to address improvements on County facilities adjacent to the I-605.

**SIMILAR/RELEVANCE:**

- ✓ Coordination with Various Agencies, including Railroads
- ✓ Traffic Signals
- ✓ Roadway Lighting and ITS Design
- ✓ Construction Cost Estimates
- ✓ Utility Coordination and Relocation Plans

**DATES:** 2022 - Present



7. FEE SCHEDULE



**AZTEC Engineering Group, Inc.**  
 30 Executive Park, Suite 120  
 Irvine, California 92614  
 TEL: 714.656.2805  
 FAX: 714.754.1690

July 26, 2024

City of Imperial  
 On-Call Civil Engineering Services  
 RFP No. 2024-04

AZTEC Engineering Group, Inc.	
Job Title	Hourly Rates (\$)
Principal	350
Senior Project Manager/Senior Technical Advisor	330
Senior Air and Noise Specialist	295
Geotechnical Engineer	250
Project Manager/Senior Environmental Scientist	245
Senior Project Engineer	230
Architect	215
Landscape Architect	210
Project Engineer	180
Registered Land Surveyor/SUE Project Manager	175
GIS Analyst	165
Engineer	155
Senior Designer	150
Environmental Scientist	145
Environmental Planner	135
Designer/Engineer-in-Training	115
Technician/Drafter	90
Administration	80
SUE Field Operator Engineer**	-
SUE Field Operator**	-

**Notes:**

- Hourly rates shown are effective for the first 3-year term of the contract (beginning July 2024).
- Reimbursables items such as copies, deliveries, postage, etc. will be billed at direct cost.
- Mileage reimbursement will be invoiced at the current federal rate when the cost was incurred. The rate for 2024 is \$0.67 per mile.

\*\*SUE Field Operator Engineer and SUE Field Operator Rates are dependent upon current Prevailing Wage Rates





**CAROLLO ENGINEERS, INC.  
FEE SCHEDULE**

As of January 1, 2024

	<u>Hourly Rate</u>
<b>Engineers/Scientists</b>	
Senior Design Manager	\$ 305.00
Senior Project Manager	\$ 295.00
Project Manager	\$ 285.00
Principal Professional	\$ 295.00
Principal Management Consultant	\$ 323.00
Supervising Professional	\$ 321.00
Supervising Programmer	\$ 312.00
Senior Professional	\$ 275.00
Professional	\$ 215.00
Staff Professional	\$ 175.00
Engineering Intern	\$ 135.00
<b>Technicians</b>	
Senior Designer	\$ 200.00
CAD/BIM Technician	\$ 160.00
<b>Support Staff</b>	
Lead Document Processor	\$ 160.00
Document Processing	\$ 140.00
Administrative Assistant	\$ 115.00
<b>Other Direct Expenses</b>	
Mileage	at current IRS Reimbursement Rate
Subconsultant	Cost + 10%
Other Direct Cost	Cost + 10%
Expert Witness	Hourly Rate x 2.0

Field rate requires fulltime field assignment for more than 3 months.  
This fee schedule is subject to annual revisions due to labor adjustments.



**FEE SCHEDULE FOR PROFESSIONAL SERVICES 2024 - 2025**

**Personnel Hourly Rate**

Principal Engineer/Project Manager	\$225.00
Principal Surveyor (PLS)	\$225.00
Project Engineer II	\$155.00
Project Engineer I	\$130.00
Construction Inspector (Non Prevailing Wage)	\$125.00
Construction Inspector (Prevailing Wage)	\$195.00
2 Man Survey Crew (Prevailing Wage)	\$360.00
1-Man Survey Crew (Prevailing Wage)	\$225.00
2 Man Survey Crew (Non Prevailing Wage)	\$260.00
1-Man Survey Crew (Non-Prevailing Wage)	\$185.00
CAD Technician	\$105.00
Administrative Assistant	\$75.00

Reimbursable Expenses..... Cost plus 10%  
 Mileage.....\$0.67 per mile



**Landmark Consultants, Inc.  
2024 Standard Fee Schedule**

**PROFESSIONAL RATES  
(HOURLY)**

Principal Engineer	\$260
Geotechnical Engineer	\$255
Senior Engineer	\$235
Project Engineer	\$220
Staff Engineer	\$190
Operations Manager	\$170
Senior Geologist	\$235
Project Geologist	\$220
Staff Geologist	\$190
Legal Cases-Principal Engineer (investigative work)	\$425
Legal Cases-Principal Engineer (depositions and trial)	\$525

**TECHNICAL RATES**

Testing Technician-(Concrete/Masonry/Soils/Asphalt)	\$110
Prevailing Wage Technician-(Concrete/Masonry/Soils/Asphalt)	\$120
Special Inspector-(Masonry, Steel, Concrete, Welding & Bolt)	\$120
PW Special Inspector-(Masonry, Steel, Concrete, Welding & Bolt)	\$125
DSA Project Technician/Inspector	\$125
Laboratory Personnel	\$110
Admin. Support Staff	\$95
Drafting	\$120
Copies of Reports (Min)	\$60
Blueprints	\$18

**EQUIPMENT/MATERIAL CHARGES**

2 & 4 WD Vehicle (per mile)	\$1.00
Tow-Behind Auger (per day)	\$150.00
Truck Mounted Drilling (Flight Auger per hr.)	\$550
Truck Mounted Drilling-(Prevailing Wage and Env. per hr.)	\$650
Per Diem Drillers (per day)	\$600
Cone Penetrometer Mob	\$3,800
Piezocene and Stratigraphic Plots (per ft.)	quote
Resistivity, Piezocone Testing (per ft.)	quote
Seismic Piezocone Testing (per ft.)	\$45
Per Diem (CPT)	\$600
Grouting (per ft.)	\$20
Dozers, Backhoe, Portable Auger, etc.	\$Cost+20%
2" diameter slotted PVC Piezometer (w/filter sock & gravel pack per ft.)	quote
8" diameter cast-iron Piezometer cover	\$130

**MATERIALS TESTING EQUIPMENT-FIELD  
(DAILY RATES)**

Swiss Hammer (Concrete)	\$95
Masonry Mortar Penetrometer	\$95
Vibrating Probe (Concrete)	\$110
Generator	\$175
Coring Machine	\$175
2" Diamond Bit/Core	\$35
3" Diamond Bit/Core	\$75
4" Diamond Bit/Core	\$85
6" Diamond Bit/Core	\$105
8" Diamond Bit/Core	\$125
Rebar Locator (R-Meter)	\$100

**COMPACTION CURVES**

Relative Compaction (CAL 216)	\$300
Standard 4" Mold, D698 Method A	\$300
Standard 6" Mold, D698 Method B,C,D	\$300
Modified 4" Mold, D1557 Method A	\$300
Modified 6" Mold, D1557 Method B,C,D	\$300
Relative Density	\$300
Relative Compaction	\$300

**SOIL & AGGREGATE STABILITY**

R-Value (CAL 301)	\$375
CBR 100% Compaction	\$750
Soil Cement, CTB, Mix Design	\$6,500
CTB Compression Test	\$130
Soil-Lime Compression Test (Includes Prep)	\$900

**BASIC SOIL & AGGREGATE PROPERTIES**

Sieve Analysis, Coarse & Fine Including Wash	\$190
Sieve Analysis, Coarse (CAL 202)	\$160
Sieve Analysis, Fine Including Wash	\$160
#200 Wash (CAL 202)	\$135
Sand Equivalent-Average of 3 (CAL 217)	\$185
Plasticity Index (CAL 204)	\$235
Expansion Index (UBC 29-2)	\$185
Moisture Determination and Unit Weight	\$80
Moisture Determination Only	\$55
Permeability Test (Undisturbed Samples) (D5084)	\$550
Permeability Test (Remolded Samples) (D5084)	\$650
Resistivity of Soil (CAL 643)	\$200
PH Test (Lab Measurement)	\$85
Hydrometer (Without Specific Gravity)	\$375
Sulfates (CAL 417)	\$85
Chlorides (CAL 422)	\$85
Corrosivity Series (Resistivity, Ph, Sulfates, Chlorides)	\$425



**Landmark Consultants, Inc.  
2024 Standard Fee Schedule**

**SHEAR STRENGTH & CONSOLIDATION TEST**

Unconfined Compression	\$170
Direct Shear (3pt. Staged Test)	\$425
Consolidation, Per load Increment w/ Time Rate	\$160
Consolidation Test w/ Time Rate	\$525

**AGGREGATE QUALITY**

Organic Impurities (CAL 213)	\$140
Specific Gravity and Absorption, Coarse Aggregate (CAL 206)	\$120
Specific Gravity and Absorption, Fine Aggregate (CAL 207/208)	\$150
Unit Weight (Average of 3) (CAL 212)	\$110
Los Angeles Rattler Test-500 Revs (CAL 211)	\$325
Los Angeles Rattler Test-1000 Revs (CAL 211)	\$475
Sulfate Soundness 5 cycle test per primary size (C88)	\$185
Mortar Making Properties of Sand (CAL 515)	\$600
Potential Reactivity Test (ASTM C289)	\$1,400
Cleanness Value Test (CAL 227)	\$210
% Crushed Particles (CAL 205)	\$160
Flat & Elongated Particles per screen size (D4791)	\$110
Clay Lumps and Friable Particles (C142)	\$200
Lightweight Pieces in Aggregate (C123)	\$390
Durability Index-Coarse or Fine (CAL 229)	\$240

**MASONRY**

Compression Test, Grout Prisms	\$55
Compression Test, Mortar Cube/Cylinder	\$55
Compression Test, Masonry Unit	\$110
Compression Test, Masonry Prism (Grouted)	\$160
Absorption and Received Moisture, Masonry Unit (Unit weight, 3 required)	\$135
Grout or Mortar Specimen, Handled & Cured But Not Tested	\$45
Bond Test (Shear) for grout/masonry interface (DSA)	\$160

**CONCRETE**

Concrete Mix Design or Review (Not Including Lab Test)	\$800
Laboratory Trial Batch, Incl. Compression Testing of 6 Specimens	quote
Compression Test, Concrete Cylinder (CAL 521)	\$50
Unit Weight of Concrete Cylinders (CAL 518)	\$70
Flexural Strength, Concrete Beam (CAL 523)	\$140
Compression Test, Gunite	\$95
Compression Test on Cored Specimens	\$95
Cylinder Molds (if not tested by Landmark)	\$25
Drying Shrinkage Test, Set of 3 (CAL 537)	\$600
Modulus of Elasticity of 6"x12" Concrete Cylinder	\$375
Splitting Tensile Strength	\$135
Chloride Ion Determination (Water Soluble)	\$425

**ASPHALT**

Agg. Corr. Factor Ignition (Lab Mix)	\$650
Extraction % Bitumen (Reflux Method)-Inc. Shipping	quote
%Bitumen (Ignition Oven /Gradation of Extracted Sample)	\$425
Stabilometer Test on Premixed Sample (CAL 366)	\$525
Inc. Hveem Max. Density	
%Bitumen (Ignition Oven) (CAL 382)	\$200
Complete Design of Wearing Surface for a Given Asphalt/Aggregate, Hveem (CAL 367)	quote
Stability & Flow on Premixed Sample (Set of 3)	
Inc. Marshall Max. Density	\$525
Marshall Stability & Flow (Set of 4) Lab Mix	
Inc. Marshall Max. Density	\$575
Unit Weight of Asphalt Core (CAL 308)	\$90
Max Density of Mix by Marshall/Hveem Method (Without Mixing)	\$295
Maximum Theoretical Specific Gravity (CAL 309)	\$265
Maximum Theoretical Specific Gravity (ASTM D2041)	\$265
Index of Retained Strength	\$1,575
Tensile Strength Ratio (CAL 371)	\$1,900
Tensile Stress Ratio	\$1,000
Stripping (CAL 302)	\$275

**METALS**

Tensile, Up to 3/4" (Not Including Machining Cost)	\$160
Greater than 3/4"	\$210
Bend	\$160

**WELDING QUALIFICATIONS - STRUCTURAL STEEL (PHYSICAL TEST METHOD - ASTM, AWS, API, AISC)**

* Visual Inspection	\$130
* Magnetic Particle/Ultrasonic Testing	\$370
Operator Performance & Procedure Tests	\$130
Machining & Material Costs	\$110
Qualification Tests on Machined Coupons	\$550



# 8. CERTIFICATE OF INSURANCE

Client#: 1273063 TYP SAUSA

**ACORD™ CERTIFICATE OF LIABILITY INSURANCE** DATE (MM/DD/YYYY)  
11/28/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> <b>USI Insurance Services LLC</b> 2375 E. Camelback Rd, Suite 250 Phoenix, AZ 85016	<b>CONTACT NAME:</b> Jessica Quiroz <b>PHONE (A/C, No, Ext):</b> 602-374-1327 <b>FAX (A/C, No):</b> <b>E-MAIL ADDRESS:</b> jessica.quiroz@usi.com														
<b>INSURED</b> AZTEC Engineering Group, Inc. 30 Executive Park, Suite 120, Irvine, CA 92614	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">INSURER(S) AFFORDING COVERAGE</th> <th style="text-align: left;">NAIC #</th> </tr> <tr> <td>INSURER A : Liberty Insurance Corporation</td> <td>42404</td> </tr> <tr> <td>INSURER B : Liberty Mutual Fire Insurance Company</td> <td>23035</td> </tr> <tr> <td>INSURER C : Endurance American Specialty Ins Co</td> <td>41718</td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Liberty Insurance Corporation	42404	INSURER B : Liberty Mutual Fire Insurance Company	23035	INSURER C : Endurance American Specialty Ins Co	41718	INSURER D :		INSURER E :		INSURER F :	
INSURER(S) AFFORDING COVERAGE	NAIC #														
INSURER A : Liberty Insurance Corporation	42404														
INSURER B : Liberty Mutual Fire Insurance Company	23035														
INSURER C : Endurance American Specialty Ins Co	41718														
INSURER D :															
INSURER E :															
INSURER F :															

**COVERAGES** **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> \$0 Deductible GEN'L AGGREGATE LIMIT APPLIES PER: POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	X	X	TB7Z61065463093	01/01/2023	01/01/2024	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$300,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY	X	X	AS7Z61065463083	01/01/2023	01/01/2024	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$0	X	X	TH7Z61065463123	01/01/2023	01/01/2024	EACH OCCURRENCE \$9,000,000 AGGREGATE \$9,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y/N <input checked="" type="checkbox"/> N/A		X	WC2Z61065463103	01/01/2023	01/01/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE - EA EMPLOYEE \$1,000,000 E.L. DISEASE - POLICY LIMIT \$1,000,000
C	<input checked="" type="checkbox"/> Professional & Pollution Liab claims made basis			DPL30001421703	01/01/2023	01/01/2024	\$5,000,000 Per Claim \$10,000,000 Aggregate \$250,000 SIR

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 AZTEC Engineering Group, Inc. - Retro Date: 11/01/1992 | Beiswenger, Hoch & Associates, Inc. - Retro Date: 01/01/1955  
 Leased/Rented Equipment \$25,000 per item Limit/ \$1,000 Deductible.  
 Hired Auto Physical Damage \$75,000 Limit/\$1,000 Comp/Coll Ded.  
 Valuable papers coverage is included with a \$400,000 limit.  
 (See Attached Descriptions)

<b>CERTIFICATE HOLDER</b> AZTEC Engineering Group, Inc. 30 Executive Park, Suite 120, Irvine, CA 92614	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
---	--

© 1988-2015 ACORD CORPORATION. All rights reserved.



## 9. EXCEPTIONS AND DEVIATIONS

AZTEC has reviewed and has no exceptions to the contents of the RFP and the City's standard professional services agreement.

### EXHIBIT C. INSURANCE REQUIREMENTS

- AZTEC's current professional liability insurance coverage includes a \$250,000 deductible/SIR. We would respectfully seek approval from the City to make this adjustment in the contract agreement.



# 10. PROPOSAL ACKNOWLEDGMENT FORM




## EXHIBIT A

### PROPOSAL ACKNOWLEDGEMENT FORM

The Proposer hereby acknowledges receipt of addenda number(s) 1, if any.

**By signing below, the Proposer agrees to all terms and conditions in this RFP, except where expressly described in the Proposer's Services Proposal.**

  
Original Signature by Authorized  
Officer/Agent

86-1001208  
Vendor's Tax ID Number (FEIN)

Michael Bruz, PE  
Type/Print Name of Signatory

AZTEC Engineering Group, Inc.  
Company Name

Vice President  
Title

AZTEC Engineering Group, Inc.  
Phone Number

30 Executive Park, Suite 120, Irvine, CA 92614  
Consultant Mailing Address

AZTEC Engineering Group, Inc.  
Fax Number

https://www.aztec.us/  
Website Address

mbruz@aztec.us  
E-mail Address

Form of Business (mark one of the following):

- Sole Proprietor/Individual
- Partnership
- Corporation
- Limited Liability Company (LLC)

If a corporation, the State where it is incorporated: California