



February 16, 2024
Revised March 15, 2024
Revised June 21, 2024

000-6P125A

Jignesh Ladhawala, Senior Engineer
Coachella Valley Water District
75-515 Hovley Lane East
Palm Desert, CA 92211

Subject: Engineering Services During Construction Proposal for
Marriott Shadow Ridge, Low-Pressure, and Emerald Desert RV Resort
Offsite Non-Potable Water Pipeline Projects

Dear Mr. Ladhawala:

We appreciate the opportunity to submit our proposal to provide engineering services for subject project. Our proposal is divided into the following sections:

Scope of Services
Estimated Fee

As shown therein, our estimated fee to provide the requested services is \$316,500. We propose to provide these services in accordance with our Biennial Engineering Services Agreement for 2024-2025.

With respect to Krieger & Stewart's team, I will serve as Project Manager/Project Engineer, and Jaclyn B. Makarzec will serve as Support Engineer; we will be assisted by our professional and support staff. Our team members will be continuously available and responsive to the District's staff and management during all phases of the project. Further, Krieger & Stewart's project team is ready to commence services immediately.

Again, we are pleased to be considered to provide consulting engineering services to the Coachella Valley Water District, and are available to discuss our proposal with you at your convenience.

Sincerely,

KRIEGER & STEWART, INCORPORATED

A handwritten signature in black ink, appearing to read 'Sinisa Saric', written over the printed name.

Sinisa Saric

SS/lge/jmw
000-6P125-PRO-R2

Attachment: Engineering Services During Construction Proposal



**COACHELLA VALLEY WATER DISTRICT
MARRIOTT SHADOW RIDGE, LOW-PRESSURE, AND EMERALD DESERT RV RESORT
OFFSITE NON-POTABLE WATER PIPELINES**

ENGINEERING SERVICES DURING CONSTRUCTION PROPOSAL

SCOPE OF SERVICES

Krieger & Stewart will provide construction engineering support services as requested by CVWD staff. We anticipate that support services will include: attending the preconstruction conference, attending bi-weekly construction progress meetings, performing periodic site visits, reviewing submittals, reviewing monthly project schedule updates, providing engineering support, and preparing record drawings upon completion of construction, as outlined in the following tasks:

Task 1 - Attend Preconstruction Conference

The preconstruction meeting will be conducted by CVWD and attended by CVWD staff, Krieger & Stewart's Project Manager and support team, and the Contractor. In conjunction with CVWD staff, we will be prepared to respond to questions regarding Contract Document requirements, including any special project requirements.

Task 2 - Bi-Weekly Construction Progress Meetings

We will participate in bi-weekly construction progress meetings with the Contractor and CVWD staff (via conference call) for duration of the construction period. We will prepare meeting notes prior to each meeting and submit them to CVWD for its review, and we will prepare meeting agendas and minutes.

Task 3 - Bi-Weekly Site Visits

We will attend twenty six (26) bi-weekly site visits during construction, as requested by CVWD staff. We will prepare field notes for each site visit and submit them to CVWD for record purposes. Site visit travel time will be shared between the offsite and onsite portions of work, whenever possible.

Task 4 - Review Submittals

We will review Contractor project submittals to ensure compliance with the Contract Documents. We expect submittal documents to be received for all construction materials and equipment, construction schedule, storm water pollution prevention plan, dust plan, preconstruction video, operation and maintenance (O&M) manuals, and record drawings.

We will prepare and maintain a detailed submittal log for an ongoing record of: submittal numbers, dates received and returned, quantities received and returned, descriptions, manufacturers, actions taken, and other comments as necessary. Said submittal log will be available for transmittal to CVWD at any time.



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Task 5 - Review Monthly Project Schedule Updates

We will review the Contractor's monthly project schedule (CPM) updates to ensure that they are consistent with the specified sequence of work, and to analyze any changes to the critical path relative to the approved baseline schedule.

Task 6 - Engineering Support

We will provide engineering support services as directed by CVWD staff. We anticipate that support services will include:

- A. Preparing responses to Contractor's Requests for Information (RFIs)
- B. Preparing Change Orders, including any required revisions to the Contract Documents
- C. Responding to questions from CVWD's Project Manager and Inspector
- D. Providing technical assistance to resolve field problems encountered by the Contractor
- E. Weekly updates with CVWD's Project Manager
- F. Preparation of six (6) legal descriptions and plats for electrical facilities (SCE or IID)

Task 7 - Prepare Record Drawings

Once project construction has been completed, we will provide CVWD with a complete set of record drawings which will reflect the facilities as constructed. The record drawings will be prepared in AutoCAD format based on construction RFIs and Change Orders; and information supplied by CVWD's Inspector and the Contractor (i.e. Inspector and Contractor "redlines"). Once the record drawings are prepared, copies will be submitted to CVWD staff for approval. Thereafter, we will provide one (1) PDF of the final record drawings.

ESTIMATED FEE

As shown on **Table 1** attached, our estimated fee to provide the services outlined in the above **Scope of Services**, is \$316,500. Our engineering services fee estimate is based on the Hourly Rate Sheet in our Biennial General Engineering Services Contract for 2024-2025.

Our estimated fee is subject to negotiation based on clarification or revision of the Scope of Services.

Our fee estimate is based on the following understandings and assumptions:

- 1. Construction administration and inspection will be provided by CVWD staff.
- 2. Project construction duration of sixty four (64) weeks.
- 3. Bi-weekly meetings (call-in) are based on an assumed meeting duration of one (1) hour. Krieger & Stewart will prepare draft agendas and minutes for each bi-weekly construction



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- progress meeting. Estimated time to prepare draft meeting agendas and minutes is two (2) hours for each meeting.
4. Estimated hours for bi-weekly site visits (Task 3) are based on 26 site visits with an average duration of four (4) hours of engineering staff's time per daytime site visit, including travel time. In an effort to reduce travel time, bi-weekly site visits with the offsite and onsite portions of work will be scheduled to be performed on the same day, whenever possible. Total travel time duration will be shared between the two (2) projects. In addition, we estimate one (1) hour of support time to prepare field visit report.
 5. Estimated hours for material and equipment submittals review (Task 4) are based on 50 submittals (total of all submittals and re-submittals) and an average of three (3) hours of engineering staff's time per submittal. Estimate does not include review of electrical, communications, and control equipment submittals or record drawings related to power service, electrical equipment, etc. Clerical hours are based on 0.75 hours per submittal for review comment sheet typing and submittal processing.
 6. Estimated hours for preparing RFI responses are based on 25 RFIs total, and an average of four (4) hours of engineering staff's time per response (included in Task 6).
 7. Estimated hours for preparing Change Orders are based on 10 change orders total, and an average of three (3) hours of engineering staff's time per Change Order (included in Task 6).
 8. Engineering support hours during construction for responding to questions from CVWD staff and resolving field problems are based on 4 hours/week for Project Manager and 1 hour/week for Support Engineer (included in Task 6):
 9. Participating in progress meetings, discussions, and audits of federal and state agencies involved in the funding is not included in our proposal.
 10. Preliminary Title Reports for preparation of legal descriptions and plats will be provided by CVWD and K&S will not be required to review said reports for other encumbrances (if any).
 11. Our estimated fee for construction phase engineering services is based on our experience with similar projects; however, our actual fee will depend on the efficiency, competence, and diligence of the Contractor.

TABLE 1
COACHELLA VALLEY WATER DISTRICT
MARRIOTT SHADOW RIDGE, LOW-PRESSURE, AND EMERALD DESERT RV RESORT
OFFSITE NON-POTABLE WATER PIPELINES
ENGINEERING SERVICES DURING CONSTRUCTION FEE ESTIMATE
(REVISED JUNE 21, 2024)

TASK / COMPONENT	PROJECT MANAGER/ PROJECT ENGINEER ⁽¹⁾		SUPPORT ENGINEER ⁽²⁾		CADD SERVICES ⁽³⁾		SUPPORT SERVICES ⁽⁴⁾		TOTAL
	HOURS	\$	HOURS	\$	HOURS	\$	HOURS	\$	\$
1. Attend Preconstruction Conference	4	1,004	1	219			1	133	1,356
2. Bi-Weekly Construction Progress Meetings	104	26,104	48	10,512			80	10,640	47,256
3. Bi-Weekly Site Visits	84	21,084	16	3,504			80	10,640	35,228
4. Review Submittals	50	12,550	120	26,280			40	5,320	44,150
5. Review Monthly Project Schedule Updates	12	3,012	24	5,256			24	3,192	11,460
6. Engineering Support	420	105,420	104	22,776	64	11,520	116	15,428	155,144
7. Prepare Record Drawings	8	2,008	16	3,504	40	7,200			12,712
Subtotal:	682	171,182	329	72,051	104	18,720	341	45,353	307,306
							Reimbursables @ 3%:		9,219
							Total for Engineering Services During Construction:		\$316,525
Billing Rates (Biennial General Engineering Services 2024-2025)							Total for Engineering Services During Construction (Rounded):		\$316,500
(1) Senior Engineer II	@	\$251 /Hr							
(2) Associate Engineer II	@	\$219 /Hr							
(3) Operator III	@	\$180 /Hr							
(4) Staff Technician III	@	\$133 /Hr							

