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## PROJECT PROPOSAL REV2

**DATE:** September 15, 2025

**TO:** Kenyon Potter

**FROM:** Mark Jeppsen

**RE:** City of Beaumont – Wastewater Treatment Plant Solar Panels Project – Electrical Design

**CC:**

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SKM is pleased to provide this proposal to provide consulting services for electrical design for bid documents for the addition of a solar panel system at the Beaumont WWTP. The proposal is broken down into three parts:

1. Assumed Design Criteria
2. Project Tasks / Scope of Work
3. Cost Breakdown

### 1. Assumed Design Criteria

The following assumptions have been made for design criteria in developing the tasks and cost breakdown for this project:

1. The City will handle all non-electrical portions of the project. This includes civil and structural engineering as well as putting together the front-end bid documents and specifications for the project. Our team will put together the electrical drawings and specifications to be attached to the documents produced by the City.
2. The electrical design will consist of an overall site plan, a detailed site plan for the solar panel area, a single line diagram, and associated calculations, schedules, and conduit development.
3. The project will require coordination with SCE which we have included in the scope.
4. The project will require coordination with Tesla which we have included in the scope.
5. The project will require coordination for modifications to the existing medium voltage switchgear to allow for reverse power through the spare breaker in the gear.
6. We assume that we will be able to coordinate with a solar panel vendor to obtain information about the typical power distribution and controls for a system around 800kW in capacity.
7. We assume design milestones will be at 60% and 100%. Each milestone will be accompanied by a submittal of the documents, review comments from the City, and a workshop held with the City to finalize the deliverable.
8. We have included assistance during the bidding process to answer questions, and provide addenda as required.
9. We have not included construction management and/or integration services as part of this proposal and assume this can be negotiated at a later date.

## 2. Project Tasks / Scope of Work

We have developed the following tasks for the work to be performed by SKM:

### Task #1 – Project Management

- Participate in the kickoff meeting for the project.
- Participate in a design workshop for each milestone. Participate in several additional interdisciplinary design coordination meetings.
- Coordinate with SCE and Tesla in order to coordinate the controls for the solar panel system.

### Task #2 – Electrical Design

- Prepare 60%/100% EI&C design drawings and specifications
- Assist Webb in the development of the engineer’s opinion of construction cost.
- Finalize facility monitoring and control requirements. Conduct a workshop with EMWD staff.

### Task #3 – Bidding Support Services

- Finalize the Bid Set of Plans and Specs for the Electrical portion of the work
- Attend the pre-bid walk-thru meeting
- Answer bidders questions for electrical topics
- Prepare addenda for electrical changes during the bid

## 3. Cost Breakdown

This project will be performed on a fixed fee basis for the above-described tasks in accordance with the costs shown herein. Invoices will be based on a percentage of completion. We have included one site visit for the pre-bid meeting. The cost breakdown is associated with the tasks described above and with the following rates:

1. Principal Electrical Engineer - \$225/Hr
2. Project Manager / Professional Engineer - \$185/Hour
3. Electrical Designer - \$145/Hour
4. Administrative - \$95/Hour

Task Information		Hours of Service Required				Expenses	Cost
	Rate:	\$225	\$185	\$145	\$95		
Task #	Description	Principal Engineer	PM / Engineer	Designer	Admin		
1	Project Management	24	24		8		\$10,600
2	Electrical Design	16	60	100			\$29,200
3	Bidding Support Services	8	8	8		\$500	\$4,940

Total Cost:

**\$44,740**

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