

28-Jun-2018

Mr. Aaron Sarfati – Jacobs PMCM
Hidalgo County Courthouse Project
Edinburg, Texas 78539

Re: Letter Proposal for Commissioning Services
New Hidalgo County Courthouse Project
Referenced Project Information:

- Schematic Design Report – dated: 16-Mar-2018

Jacobs is pleased to provide this Letter Proposal for commissioning services at the New Hidalgo County Courthouse project located in Edinburg, Texas. This submission is based on providing Design, Construction, Testing, and Occupancy Phase Commissioning Services to support the delivery of a project that meets all of your goals. All services outlined in this proposal are to be managed utilizing an independent suffix number from those services being rendered by PMCM.

The attached pages outline the full scope of the proposed commissioning activities for the project, along with pricing as it relates to these scopes of services.

We appreciate your consideration of our qualifications and experience and this opportunity to submit our proposal. If you have any questions, please contact me at 281.776.2541 or michael.gonzales@jacobs.com.

Sincerely,



Michael Gonzales, CxA
Sr. Commissioning Manager

CC: Chris Smith, P.E., CxA, LEED AP
Mike Pampalone, P.E, CxA, PMP, LEED AP
Greg Hatch, Principal

II. Systems to be Commissioned

The following systems are proposed to be commissioned:

A. Mechanical Systems

System	Est. Qty	Sampling Rate
400 Ton Water Cooled Chillers	4	100%
Primary Chilled Water Pumps	3	100%
Constant Volume Condenser Water Pumps	3	100%
1200 GPM Cooling Towers	3	100%
Air Handling Units serving 1 st and 2 nd floors.	5	100%
Roof Top Units serving floors 3-7.	3	100%
VAV Terminal Units	1 LOT	20%
CRAC Units serving telecomm rooms and/or data processing equipment.	1 LOT	100%
Roof Mounted Exhaust Fans serving restrooms, break rooms and janitor spaces.	1 LOT	100%
Heating Hot Water Boilers	4	100%
HVAC Controls	1 LOT	100%

B. Plumbing Systems

System	Est. Qty	Sampling Rate
Domestic Water Triplex Booster Pump	1	100%
Hot Water Circulating Pumps	7	100%
Domestic Water Heat Exchangers	7	100%

C. Electrical Systems

System	Est. Qty	Sampling Rate
Lighting Controls	1	20%
Switchboards (MSB-1 & MSB-2)	2	100%
UPS – Located in MDF room.	1	100%
Automatic Transfer Switches	3	100%
Emergency Generator	1	100%

D. Building Security Systems

System	Est. Qty	Sampling Rate
Door Control and Monitoring System	1 LOT	50%
Access Control System	1 LOT	50%
Digital Video Management System	1 LOT	50%
Personal Duress Alarm System	1 LOT	50%

E. Life Safety

System	Est. Qty	Sampling Rate
Fire Alarm System	1 LOT	50%
Electric Driven Fire Pump	1	100%
Emergency Lighting	1 LOT	50%
Smoke Exhaust System	1 LOT	100%
Stairway Pressurization	1 LOT	100%

F. Miscellaneous

System	Est. Qty	Sampling Rate
Fuel Oil System	1	100%

III. Basic Commissioning Services

Commissioning services are as agreed to in the proposal for this scope of work and in conjunction with the Schematic Design Report dated 16-Mar-2018.

This proposal includes commissioning services during the following phases of the project. All phases of the project will require assistance from other members of the Design and Construction Team, including Owner's personnel. The cost, if any, for this assistance is not included in this Proposal.

A. Design Phase

Design Phase Tasks include the following:

1. Develop project specific commissioning plan.
2. Review Basis of Design as developed by Design Team.
3. Perform Design Reviews at 100% DD, 50% CD and back check at 100% CD levels.
4. Review Cx specifications and provide comments to design team.
5. Attend two (2) Design Review meetings and participate via phone/Webex on one (1) additional design phase meetings.
6. Participate in one (1) value engineering workshop.
7. Attend one (1) pre-bid meeting.

B. Construction Phase

During construction, the commissioning team continues to ensure the owner's requirements are realized. The team works closely with contractors to integrate commissioning activities into the overall construction schedule, to keep commissioning activities off the critical path, and to carry out site inspections with a focus on systems operations and maintenance.

Construction Phase Tasks include the following:

1. Lead one (1) Construction Phase Commissioning Kick-off Meeting for Contractor and subcontractors.
2. Lead one (1) Commissioning Scope Coordination Meeting with project team.
3. Conduct site visits in coordination with project milestones and meetings.
4. Update and distribute Cx plan.
5. Review submittals for equipment being Cx'd.
6. Review ASIs & RFIs for impact to the Commissioning Process.
7. Review O&M Manuals as provided by Contractor and subcontractors for equipment being Cx'd.
8. Develop and issue Pre-Functional Checklists for systems within the Commissioning scope
9. Develop and issue Functional Performance for systems within the Commissioning scope.

C. Testing Phase

During functional performance testing, the commissioning team moves to the forefront. The team verifies the performance of systems based on detailed test procedures developed by the commissioning team and verifies appropriate equipment settings have been implemented. Ultimately, the team prepares extensive documentation on systems, including benchmarks for energy use and equipment efficiencies, seasonal operational issues, start-up and shutdown procedures, diagnostic tools, and guidelines for energy accounting.

Testing must be performed not only in normal operating modes, but also under all possible circumstances and sequences of operation, with real-life conditions simulated as much as possible. Further, integrated systems testing should examine systems as a whole in order to evaluate overall design and compatibility.

Testing Phase Tasks include the following:

1. Conduct one (1) Testing Coordination Meeting prior to the start of Functional Performance Testing.
2. Witness Functional Performance Testing for equipment listed in this proposal.
3. Closeout corrective issues generated at the time of Functional Performance Testing.
4. Develop draft Commissioning Report required prior to substantial completion per IECC 2018.

D. Occupancy Phase

Commissioning is not finished when the building project construction is completed. During the first year of occupancy, the team can continue to correspond with the owner, facility managers, and operations staff to refine equipment use, undertake any warranty repairs, and gather recommendations for improving building performance.

Occupancy Phase Tasks include the following:

1. Develop and distribute final Commissioning Report.
2. Attend project closeout meeting for Cx'd systems.
3. Conduct seasonal testing if required.

IV. Additional Commissioning Services

Additional Commissioning Services include, but are not limited to, the following and shall be approved by Client prior to commencement.

- A. Retesting of any component or system.
- B. Meetings beyond those included in Basic Commissioning Services
- C. Extension of the Project Schedule beyond the dates listed in the Project Description.
- D. Commissioning of systems not included in the list of systems to be commissioned.

V. Basis of Compensation**A. Basic Commissioning Services**

- B. For the COMMISSIONING SERVICES as defined above, we propose that the BASIS OF COMPENSATION will be a Lump Sum Fee of \$547,208.00 (Five Hundred Forty-Seven Thousand Two Hundred Eight and No/100 Dollars).

Total Labor & Expenses	\$547,208.00
-----------------------------------	---------------------

Note:

Because Building Envelope Testing can be approached in different approaches, we would like to further discuss the intended design and BECx approach so that we can then factor them into the scope of services as required by IECC 2018. At this time, no BECx services have been included.

END OF PROPOSAL