

ADDENDUM NUMBER 5

FOR THE

CITY OF CORCORAN

**2020 WASTEWATER TREATMENT PLANT
MODIFICATIONS**

February 22, 2021



OWNER:
City of Corcoran
832 Whitley Avenue
Corcoran, CA 93212

PREPARED BY:
A&M
220 N Locust Street
Visalia, CA 93291

ADDENDUM NUMBER 5

The following additions, deletions, or modifications shall become part of the Contract Documents for the City of Corcoran 2020 Wastewater Treatment Plant Modifications project:

CONTRACTOR QUESTIONS:

QUESTION: Standard General Conditions, Article 14, 14.02 C & D. Please clarify what permits, if any, will be required by the City of Corcoran or Kings County for this project.

RESPONSE: Contractor shall be responsible for all environmental stewardships that apply for the project as covered on the project specifications, which is as follows but not limited to Dust Control as determined by the San Joaquin Valley Air Pollution Control District and Storm Water Pollution Prevention Plan (SWPPP) as determined by the California Water Board Construction Stormwater program. Additionally, the contractor will need to obtain a City Encroachment permit from the City of Corcoran at no charge.

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QUESTION: Can we use standard Galvanized Cee's & Zee's for the wall girts rather than the wall studs? Cee's & Zee's are standard in the industry for metal buildings.

RESPONSE: Bidder will need to go through the substitution process to determine if wall studs can be replaced with Cee's and Zee's. A redesign of the building will require a review of the structural design by the engineer to be paid by the bidder. The technical requirements are on the drawings.

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QUESTION: Is PVC acceptable for underground electrical raceways? Also, the drawings show an 800A 480/277V switchboard, while the Specs call for an 800A 120/208V switchboard. I just wanted to get that clarified.

RESPONSE: PVC conduit is acceptable. Contractor to verify PG&E standards for PVC Sch 40 or 80. All other shall be Sch 40. New switchboard at the ponds shall be 800 amp, 480/277V, 3 phases, 4W.

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QUESTION: Who is building/providing the Control Panel shown on page E-0.1, detail 'F'? There is no schematic or bill of materials shown so we are assuming it's supplied by others. I didn't find it any specification section or on the one-line diagram.

RESPONSE: The Control Panel is to be provided by the bidder.

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QUESTION: Can you provide pipe trenching details for the buried air piping?

RESPONSE: The buried air piping shall be backfilled with trench side native material and compacted mechanically to 92 percent of max density to match compaction of the embankments.

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QUESTION: I did not see the air percentage for the concrete mix. It asked for air in "high" alkali areas, but the soils report doesn't state there's "high" alkali. Please advise.

RESPONSE: No air entrainment is required.

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QUESTION: Please provide a specification for the variable speed drive for Effluent Pump 2. It does not appear to be in the specification. VSDs for the blowers are specified in the blower spec.

RESPONSE: Provide Danfoss VLT Aquadrive FC202 #P22K VFD for pump #2

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QUESTION: Do you know what type of pipe the 14" Valve is being installed on?

The insert type valves that we deal with can only be installed on Cast Iron, Ductile Iron, C900 PVC, or certain types of AC. They cannot be installed on any type of steel pipe (CMLC, SCCP, Carbon Steel, etc.). RCP is a no go as well.

If an insert valve doesn't work, I'm sure we can install a line stop and you can cut in a typical gate valve. Is that an option?

RESPONSE: Contractor shall submit RFI during construction for course of action.

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QUESTION: Can you please confirm we do not need to complete the Local Assistance Procedures Manual form below since this is not a Federal Job. Also, how long do we have to turn in the subcontractor form and does it need to be a hard copy.

Memorandum

To: Joe Faulkner, Orfil Muniz P.E.

From: Terry Schroepfer, P.E.

February 19, 2021

Subject: Requests for Substitution

I have reviewed material submitted by vendors who have asked that their products be considered as “equal” to the specified manufacturers. The following are my recommendations and key factors considered:

Effluent Pumps Section 43 23 13

Requests were received by two vendors, Xylem and Crane Deming;

Xylem key factors:

- Pumps did not meet minimum efficiency specified.
- Solid size was not specified.
- There was no data or analysis of the pumps capability to operate within the low flow regime specified when used with a variable speed drive.

Recommendation: do not approve as equal.

Crane Deming key factors:

- 8x8 pump (Pump 2) does not meet minimum specified efficiency. 6x6 pump was close, but below specified efficiency.
- There was no data or analysis of the pumps capability to operate within the low flow regime specified when used with a variable speed drive.

Recommendation: do not approve as equal.

Progressive Cavity Pumps Section 43 23 57

Requests were received by three vendors, Seepex, Netzsch and Liberty.

Seepex key factors:

- The submittal was incomplete and not sufficiently detailed as to conformance with the specifications and/or variances from the specifications.
- The suction and discharge flanges do not conform to the size specified.

Recommendation: do not approve as equal.

Liberty key factors:

- Liberty states that they conform to the performance and dimensions of the specified Moyno pump, however they did not identify how they conform to the material and construction specifications. Liberty did not identify variances and how those variances meet the intent of the specs. There was insufficient information provided to make a determination.

Recommendation: do not approve as equal

Netzsch key factors:

- The discharge size proposed is 4 inch and the specified discharge size is 6 inch.
- It is unclear how the pump would fit dimensionally on the existing foundation and how the existing piping will match the pump inlet and discharge.
- Although different than the specified pump in its design and construction, its design appears to meet the functionality and performance specified.

Recommendation: approve as “equal” provisionally if the pump can match the existing piping. Any modifications to the piping will be included in the contractor’s bid.

Rotary Positive Displacement Blower Section 43 11 33.

A request was received from Bioworks for approval of a Gardner Denver Model Heliflow 624 blower package.

Key Factors:

- Although the Heliflow 624 did not meet all the specified design and construction, it appears to meet the functionality and performance specified. The differences appear to be differences in design approach and material preference. It would be difficult to ascertain, with a cursory review, whether these differences make any difference in quality and durability.

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- The discharge is 8 inch v a specified 10 inch as shown on the drawings.
 - The submittal was unclear if the specified accessories are provided.
 - There was no information submitted on the performance of the sound attenuating enclosure on ambient noise levels.

Recommendation: approve as “equal” provisionally with the following conditions:

1. Discharge, with check valve shall be 10 inch as shown in the drawings,
2. Unit shall meet specified sound levels.
3. Provide the specified VFD on the blowers as shown in the drawings.
4. Provide all accessories as specified.
5. Any changes in piping, foundation, or the building to accommodate the blowers shall be included in the contractor’s bid.

Bioworks submitted a request for “equal” approval as a substitute for the Biolac system. Please refer to my earlier memo and recommendation on Bioworks.

I did not review conformance with Buy America provisions of the contract. This is the responsibility of the manufacturers and contractor.