

LANEY COLLEGE POOLS HEATING & CHLORINATION UPGRADE

DOCUMENT 00 9113

ADDENDA

BID NO. 16-17/14

Peralta Community College District

**Laney College Pools Heating & Chlorination Upgrade
900 Fallon Street Oakland, CA 94607**

April 19, 2017

ADDENDUM No. 1

This addendum supersedes items of the original contract documents wherein it is inconsistent with it. All other conditions remain unchanged. The following changes, modifications, corrections, additions or clarifications shall apply to the contract documents and shall be made a part of and subject to all of the requirements thereof as if originally specified or shown. It is the responsibility of the proposer to review the list of attachments to ensure that the addendum is full and complete. This Addendum modifies the original RFP Documents for the above RFP. **Acknowledge receipt of this addendum in the space provided on the Proposal Form. Failure to do so may subject Proposer to disqualification.**

Responses to Requests for Information (RFI):

- 1) Please consider adding CSLB classification C-53, Swimming Pool Contractor to perform this project.
 - a) California Code of Regulations Title 16, Division 8, Article 3. Classifications
 - b) A swimming pool contractor constructs swimming pools, spas or hot tubs, including installation of solar heating equipment using those trades or skills necessary for such construction.
 - c) This license encompasses the complete and entire pool including gas, water and electrical of which the described changes are just a part of.

Reply: Agreed, C-53 Licensed contractor should be allowed to bid and perform

- 2) Please clarify pipe type: Currently states all pipe to be CPVC.

- a) Pentair Eti400, water and exhaust can be Sch 40 PVC.

Reply: Yes, heater exhaust can/should be PVC sched40

- b) Chemtrol lines: Suggest Sch 80 PVC

Reply: Assume you mean Salt/Chlorine loop, this could/should be Sched80 PVC

c) Water fill: Suggest Sch 80 PVC

Reply: Yes, sched80 works

d) Chlorine feed lines: Suggest Sch 80 PVC

Reply: Yes, sched80 works

3) The electrical just calls out "Conduit". No call out for "Galvanized" which is on the legend.

a) Suggest Sch 80 electrical conduit and fittings.

Reply: Yes, sched80 conduit works

4) What is the model number for the TEK.

Reply: There are two (2) TEK controllers (one for each pool) Lincoln PN 98110

5) Please approve substitution of Pentair Accu-Drive with Danfoss Aqua-Drive

a) VLT® AQUA Drive FC= 18.5 KW / 25 HP, 380 – 480 VAC. Dive pool

b) VLT® AQUA Drive FC= 5.5 KW / 7.5 HP, 380 – 480 VAC. Lap pool

Reply: Approved

6) Requesting that the 3 heaters next to the wall be rotated 90 degrees clock-wise so that the plumbing is facing the center of the room.

Reply: Rejected

a) The units are easier to work on. The plumbing is easier to operate when it comes in on the front.

Reply: Rejected

b) The gas line is shown as 1 ½. It is actually ¾.

Reply: Manufacturer (Pentair) manual drawing says 1.5" – in any case, this is minor detail

7) Requesting to move the CO2 injection after the 25# per day salt generator

Reply: Approved

8) Requesting to move the salt injection point after the 25# salt generator.

Reply:salt injection is part of the salt generator unit)

9) Requesting addition of unions to smaller Pentair pump.

Reply: Approved

10) Requesting addition of true union style service ball valves for cleaning the strainer and pump repairs on both Pentair pumps.

Reply: Approved

11) Requesting addition of FloVis check valve/ flow meters to each heater supply. Needed for flow verification and adjusting.

Reply: FlowVis flow meters approved w/o check valves

12) What are the exact model numbers for the Chlor-King units? Are they SW or SM,

Reply: Refer to revised BOMs, Chlor25SM; Chlor40H

13) Requesting approval of brand and model substitution for chemical feed pump. See below

Reply: Rejected

14) What is the exact Chemtrol model number?

Reply: Refer to BOMs, these are optioned Chemtrol 2100s

15) Is the optional Chemtrol Flow Cell Assembly with clear cover, two control valves and sampling valve being specified?

Reply: Refer to ChemTrol 2100 specification sheet which lists these features as standard, spec'd with optional Chlorine PPM prob kit and 4-20ma communication board

The small pool motor is being replaced:

Reply: motor/pump are both being replaced

a) Please provide the pump model number and impeller size

b) If the pump is to be entirely changed, please provide existing model number and impeller size. If new pump company, please provide flow at 60 feet of head pressure and model number.

Reply: New pump is Paco model #25957-LC. Existing lap pool pump is Sulzer 5HP, 150GPM (at 65ft of head), 7.98" impeller

16) Do the chemical ball valves need to be FMK (Viton) seals?

Reply: Yes

17) There is no plan view of the filtration and equipment piping. It is unclear on how much of the piping is to be replaced and how much of the piping is to remain. This includes filtration line from the filters to the pool and bypass loops for the heaters and chemicals. It needs to be clear on how much of this piping is to be replaced and what is going to be left. Proper pipe lengths should also be considered for the flow meters to operate correctly.

Reply: There was limited budget for the design phase which limited the drawing set. Estimating amount of repipe and implementing is the responsibility of the contractor

18) The pipe size on the loop for the salt generators is not called out. The drawings show this as a loop outside of the chemical loop with no valves to divert the water from the chemical boost pumps through the injectors and through the chlorine generators. There is no way to control the flow of water through the loop and no isolation valve

Reply: On existing drawings, the water flow thru the (salt based) chlorine loop is controlled by dedicated pumps (P1, P2 respectively), pipe size called out 3" on dive pool, 2" on lap pool. However, regarding isolation valves, we have added isolation valves and are issuing new dive and lap pool drawing pages MKT 200 rev.O and are at the bottom of this addendum

19) The drawings call out for a salt sensor and controller. The equipment is not called out on the equipment schedule on the drawings. There is also no control wire shown to the brine feed pump.

Reply: The Chlor 25 comes with a salt sensor and simple (on/off) control which simply switches AC power to the brine pump, however, the Chlor 40 does not. We are publishing an addendum adding the necessary ChlorKing 5000 to BOM on MKY100 and MKT200 rev.O for dive pool. Also calling out the brine pumps as Stenner 85M5 pumps on the bill of materials schedule and renaming the brine pumps as BP-1 & BP-2 (on both pools revised pages MKT100 rev O).

20) There is not model and manufacture listed for the brine pump. Can you please specify the manufacture and model?

Reply: Stenner 85M5

21) The drawing calls out for the dive pool pump to be replaced in kind. Please specify manufacture and model.

Reply: The (electrical) drawings actually call for the lap pool pump to be replaced, this has been added to other drawing pages, PACO model #25957-LC

22) The flow meters for the chemical system and the heart system do not show a control wire. Are the pumps to be controlled by the tek system? Does the tek system have the capability of a flow set point? What is the desired flow set point for each of the systems?

Reply: The pumps on the heater sub-loops are being turned on/off by the TEK. Salt pumps are controlled by ChlorKings. The flow rates in the heater and salt sub-loops are determined by the new variable speed pumps (depending on which revised pool drawing, P1, P2, P3, P4). These flows are to be constant, essentially independent of flow in the main lines. The flow rates (of these variable speed pumps) will be set during commissioning.

23) Do the backup chlorine pumps need a control system? If they do please indicate the system.

Reply: The Chemtrols will be controlling both the ChlorKing25 and 40s as well the backup Chlorine pump. The backup Chlorine pump electrical is switched on/off by the low Chlorine alarm circuitry.

24) Are the heaters to be controlled by the tek system? Is the control temp to be determined by ts1 and ts5?

Reply: TEK controls the heaters. TS1 & TS5 supply feedback to control system

25) The drawings call out for all piping to be CPVC sch-80 pipe. Typically, only the heater piping is CPVC. Please clarify piping type for the recirculation system.

Reply: You are correct, the heater piping needs to be CPVC, all other piping PVC sched80....noted in rev O as well in reply to RFIs from Gary Gockel

26) The drawings call out for a new auto fill system. There is no description of this system. Please specify the type of system to be install. Include model, manufacture, type of fill, type of sensor, the existing fill line is and what size the fill valve needs to be.

Reply: Correct, existing autofills need retro-commissioning - currently non-op, condition unknown. This portion is essentially design/build and likely involves new servo'd fill valves in addition to the (2 - new) integrating flow meters specified.

27) The drawings call out for the existing chemical system to be removed. To what extent is the system to be removed? Are all of the chemical holding tanks on site going to be emptied before the contractor begins work? The chemicals are considered hazardous and may need to be removed by a qualified company.

Reply: It should be possible to draw down the mild chlorine solution in the tanks prior to shut down by coordinating with facilities. As far as we know, they are mostly empty already as the existing salt system has been offline. Once these tanks are essentially empty, the remaining could be dumped into the pools without raising chlorine levels drastically and will quickly dissipate (prior to swimmers being allowed in). However, the winning contractor is expected to deal with any hazardous disposal required, including removing and disposing of said tanks

28) Who is to pay for all of the startup chemicals? This includes salt for the chlorine system and all other chemicals necessary to balance and operate the pool.

Reply: Pool water anticipated to remain, any incidental chemicals required upon restart are to be responsibility of College

29) Will the pools be kept full of water during the work? Will the owner maintain any sanitation of the water?

Reply: Yes, pool water to remain. It is anticipated that the main filter pumps can remain on during the bulk of the period of work to replace chemical production and delivery system. Chlorine will be hand fed (by Laney College facilities) during this time, unfortunately, the PH will probably rise during this period due to lack of CO2 control, but swimmers not in pool until after this phase completed and PH rebalanced.

30) The drawings call out for 1 PH for the pumps and VFDS. Please clarify if this should be 3 PH for each piece of equipment.

Reply: Pump motors are 3 Phase

31) The drawings do not show where to run the exhaust and intake for the pool heaters. Where do these pipes run and terminate?

Reply: The existing (metal) heater exhaust ducting is to be replaced with PVC ducting and routed per manufacturer's recommendations

32) There is no layout for the location of the chemical equipment. It appears to be located on the same place as the existing system as called out on the electrical drawings. Is there a layout for this equipment? If the boost lines need to be routed from the main filter line to the upper mechanical space the floor will need to be core drilled or the piping will need to run through the holes cut into the grating. Does the contractor need to account for structural review of any penetrations through the floor or grating?

Reply: The new chemical equipment is anticipated to go in the same general area as the existing. Layout of this equipment is considered relatively straightforward and is the responsibility of the contractor (design/build). Any new core-drilled holes are anticipated to be trivial and a structural review not required.

Revisions to bid documents:

Document 00 1113 Notice Inviting Bids, Article 2, Section 2.01 originally stated that in order to bid, contractors must have one of the following licenses: "A" or "B" or "C4" or "C20". *That requirement is being expanded to include "C-53".*

Revisions have been made to the following four drawings in response to the RFI in this addendum. Replace the ones originally issued with these versions listed here and attached to this Addendum One.

Peralta College Dive Pool 100 Rev 0
Peralta College Dive Pool 200 Rev 0
Peralta College Lap Pool 100 Rev 0
Peralta College Lap Pool 200 Rev 0

END OF DOCUMENT