

## ADDENDUM # 1

REQUEST FOR PROPOSALS #09/10-13  
Air Handling Unit Replacement  
Building 2 Performing Arts Center  
East Campus

Addendum 1 of the above mentioned Request for Proposal. Attached to and considered part of this Addendum No. 1 is a compilation of all questions which were received as of close of business on Thursday, November 12, 2009, together with answers to each of the questions.

Acknowledgement of this addendum is mandatory and must be noted on page 23.

### DRAWINGS

#### ITEM    DESCRIPTION

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**D-1:    Sheet M-6, "Schedules, Details - HVAC."**

Revise Air Handling Unit / Fan Coil Unit Schedule as follows:

1.    Remove note (2).
2.    Revise AHU-2 Discharge Sound values to the following:

63 Hz	88
125 Hz	93
250 Hz	89
500 Hz	87
1 kHz	83
2 kHz	81
4 kHz	75
8 kHz	70

3.    Revise Min. No. of Rows to the following:
  - a. AHU-1 = 6
  - b. AHU-2 = 3
  - c. RTU-9 = 4
4.    Revise Max WPD (FT) to 20 for all units.

### SPECIFICATIONS

#### ITEM    DESCRIPTION

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**S-1    Section 15850, "Air Handling Units, Central Station, Modular":**

1.    Revise Article 2.7, "Filters" to read as follows:
  - B.    Pre-Filters:

Thickness:	2-inches
Efficiency:	MERV 8 (30%)
Media Type:	Pleated Media

Access: Removable from one side of unit  
Arrangement: Provided as defined by drawings.

- C. Final Filters:  
Thickness: 12-inches  
Efficiency: MERV 11 (65%)  
Media Type: Pleated Media  
Access: Removable from one side of unit  
Arrangement: Provided as defined by drawings.

**S-2 Section 15851, "Air Handling Units, Roof Mounted, Packaged":**

1. Revise Article 2.7 "Water Coils" to read as follows:
  - A. Copper tubes with mechanically bonded aluminum or copper fins. Coil header and U-bends shall be completely enclosed within unit casing. Coils shall be tested at 200 psig pressure and prove tight. Coils shall have stainless steel casing, be accessible for service, and removable through access panels.
2. Revise Article 2.8 "Fans" to read as follows:
  - C. Where the application may be best suited by using a plenum fan, fan may be direct drive or belt drive centrifugal type with blades of backwardly inclined airfoil configuration if approved by the Architect/Engineer.
3. Revise Article 2.11 "Drive" to read as follows:
  - B. Plenum fans shall be direct drive or belt drive as per manufacturer's recommendation for the application.
4. Revise Article 2.16 "Roof Curb" to read as follows:
  - C. If unit is a replacement unit for an existing rooftop unit having an existing curb, then Contractor may, at his option (unless otherwise specified), provide an adapter curb to complete the installation. Adapter curb shall meet the above requirements for roof curbs.
  - D. Existing Curb size for the TTL building RTU-9 is approximately 96"x178". Contractor shall field verify existing curb dimensions prior to purchase or fabrication of adapter curb.

**RFI, Questions and Answers**

**Question 1:**

Is the RTU -9 work a part of the Theater Technology Lab that is available from March 6<sup>th</sup>, 2010 to March 14<sup>th</sup>, 2010? The RTU-9 work on drawing M-4 title block is written as the Performing Arts Center VCC East Campus.

**Answer 1:**

Yes, the RTU-9 is the new rooftop unit that will serve the Theater Technology Lab. The entire project is titled "AHU REPLACEMENT – PERFORMING ARTS CENTER – VCC EAST CAMPUS" and originally consisted of replacing only AHU-1 and AHU-2 in

the Performing Arts Center building, but RTU-9 was added to the entire project midway through the design with no change to the project title.

**Question 2:**

Specifications 15050 Basic Mechanical Materials and Methods, 3.2 Painting, A. Paint all exposed piping, insulation, equipment, structural bases, racks in equipment rooms and on roof, furnished under Div. 15 of the specifications.

Does this apply to existing Div 15 items to be painted?

Does everything in the existing Mechanical rooms get painted?

**Answer 2:**

Painting requirements apply to all new work. Everything in the mechanical rooms that is new should be painted, except that there is no requirement to field paint a product or component that already comes from the manufacturer with a painted finish (e.g., variable frequency drives). Also, if the galvanized steel casings of air handling equipment are not pre-painted by the manufacturer, then there is no requirement to paint the galvanized steel casings in the field. However, touchup of any pre-painted items is required if the pre-painted finish is slightly marred during the construction process. Touchup also applies to walls. The intent is to simply paint the new work to present a neat and finished appearance to the work.

**Question 3:**

It was stated at the pre-bid meeting the mechanical contractor will purchase the equipment and the owner may apply a direct purchase with the contractor. The specifications state that the owner has pre-purchased the equipment and will turn the equipment over to the contractor. Please confirm what is required for the purchasing of the equipment.

**Answer 3:**

Ignore the prefacing statement in the Specifications which states that the Owner will have pre-purchased the equipment; this pre-purchase by the Owner was not executed prior to the issuance of the RFP for proposals. These prefacing statements will be deleted by an addendum for those sections which are prefaced by the statement that Owner will pre-purchase.

The Contractor should provide all materials and labor for a complete turn-key job. If Owner elects to take advantage of tax free status and purchase the equipment directly, the cost will be deducted from the bid. Adhere to Paragraph 3.3 of the RFP.

**Question 4:**

Is most of the supply and return duct remaining in the mechanical rooms? Is remove to what is required to adapt to new connections apply?

**Answer 4:**

Contractor should remove only that ductwork needed to make the air handling unit replacement so that the result complies with the final configuration as shown on the Drawings. If a large section of ductwork needs to be removed in order to install a unit, then that section of ductwork may be reused and replaced, providing the duct can be

replaced in the same location as shown on the Drawings and providing that there are no other requirements that such a section of ductwork be replaced with new ductwork.

However, the Contractor may replace existing ductwork with new ductwork at his option if that makes the installation easier. The intent is to simply replace air handling equipment and connect to new equipment to as much of the existing duct systems as is practical commensurate with the function of the new unit.

**Question 5:**

This is regarding the smoke hatch doors on the roof that are currently wired shut. On the mechanical drawings, it states to repair for normal operation.

Please clarify what manual operation will consist of as far as being acceptable or do you want it to be electrically operational.

**Answer 5:**

When the work is completed, the hatches at the top of the stage should be activated (opened) when the following events occur: (1) whenever the fire alarm system senses a fire/smoke condition and sends a signal to the HVAC system that puts AHU-2 into "smoke control" mode, (2) whenever a person activates the manual pull station at its present location at the stage floor. The hatches should also release and open when their fusible link closure devices are released by virtue of heat buildup at the hatch.

When the fire alarm system sends a signal that tells AHU-2 to go into smoke control mode, the return air dampers to AHU-2 should close concurrently with the opening of the large outdoor intake damper in the return duct at AHU-2. Then AHU-2 can draw 100% outdoor air from the mechanical room louver through AHU-2 to supply outside air to the stage for smoke purge. and the hatches at the top of the stage should concurrently automatically be opened to let this incoming air be exhausted at the top.

Regardless of any operational modes, the smoke hatch doors should also be able to be opened manually at the pull station at the stage level. This manual activation to cause opening of the hatches may be by either a completely mechanical means (similar to the present manual means which is inoperative) or by electrical/electronic means by converting the mechanical pull station to an electronic push button station which will cause the hatches to open. Manual activation by either the pure manual means or by manual activation of an electronic/electric process that provides the hatch opening will be acceptable.

**Question 6:**

A. It appears that the specked unit for replacement is larger than both the hallway which is approx 6' and the exterior breeze way.( the methods for removal of existing unit is understood.) are there plans for the demo and replacement details, or engineering for shoring due to the doors and jams and wall sections needing removal. Or are we to assume to design and engage arch and structural engineer for this scope and to provide permit and permit drawing. (The other solution is different spec or a custom air handle) expensive and long lead.

- B. Is there a reflective ceiling plan showing ceiling type at vav replacement locations that would also show lighting conflicts for removal and replacement at new vav locations.
- C. Also can we be provided with fire sprinkler as built's to verify any conflicts of pipe that may pose an issue with removal and installation on new vav's

**Answer 6:**

- A. Air handling units are expected to require substantial disassembly and reassembly in order to get them into the mechanical rooms. This procedure was considered during the design and verified to be attainable with the McQuay vendor. The degree of disassembly is up to the Contractor. No allowance is made for removal of door frames, walls, etc.
- B. A zip file entitled **RFI#5-Dwgs(PDFs)-111209.zip** is attached with these RFI responses which includes scanned copies of the following original drawings. These drawings are for information only and are not to be considered as part of the Contract Documents; additionally Valencia CC does not in any way assure that the existing construction is exactly as shown by these drawings.

xRFI#5=VCC-E-2PAC-Sht009-A-3=RoofPlan.pdf

xRFI#5=VCC-E-2PAC-Sht012-A-6=Auditorium-Sections+Details.pdf

xRFI#5=VCC-E-2PAC-Sht021-A-15=Auditorium-  
ReflectedCeilingPlan.pdf

xRFI#5=VCC-E-2PAC-Sht073-M-4=Auditorium-FloorPlan.pdf

xRFI#5=VCC-E-2PAC-Sht074-M-5=Auditorium-PartFlrPlan+Section.pdf

xRFI#5=VCC-E-2PAC-Sht082-M13=AuditoriumSections.pdf

- C. It is not known whether the fire sprinkler as-builts are available from the Owner. If they are, these can be provided in PDF format to the successful proposer.

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Name of company submitting bid