

ADDENDUM # 1
Date of Addendum: April 2, 2014

NOTICE TO ALL BIDDERS AND PLANHOLDERS

The Contract Documents for the above-referenced Project are modified as set forth in this Addendum. The original Contract Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the Contract Documents. Bidder shall take this Addendum into consideration when preparing and submitting a bid and make acknowledgement of its contents in accordance with the bidding document requirements.

0.0 – STATEMENT OF WORK

Item	Description of Change/Modification –
0.1	Scope of Work: Contractor shall also provide outside temporary A/C unit, which includes installation of flexible chilled water piping, electrical power, temporary ducting from the unit to the main supply air trunk line, air filtration and VFD in order to assure continuous HVAC service to the space being served. Contractor shall open exterior wall to accommodate temporary ducting but shall also take necessary measures to mitigate this opening for inclement weather. Outside temporary A/C unit may be placed on 2 nd floor exterior deck and should be secured as required.
0.2	Scope of Work: Contractor shall include demolition and replacement of heating hot water (HHW) & chilled water (CHW) lines back to the nearest isolation valves, as well as replacement of the isolation valves themselves, the existing ductwork, HVAC (DDC) controls and electrical required for a full and complete installation of the new unit.
0.3	Scope of Work: The existing concrete pad on which the unit will sit is to be modified/sealed as required to prevent leakage to areas below.
0.4	Scope of Work: Contractor shall provide temporary barriers and implement/insure that negative air flow is provided. The scope of work will take place in and through the existing hospital interstitial space which is considered to be an asbestos containing environment. Contractor shall follow all VA training requirements for this project to include that all workers have 16 hours of OSHA asbestos maintenance and operations training and the supervisor to have completed the 40 hour OSHA asbestos contractor supervisor training as well as the 30 hour OSHA certified construction safety course and be a OSHA certified “competent person” (CP) (29 CFR 1926.20(b)(2)).
0.5	Scope of Work: Contractor shall remove all asbestos (needs to be accomplished by a certified asbestos contractor) in the mechanical room and/or surrounding space and replace with new sprayed on fireproofing (see .
0.6	Scope of Work: Contractor is required to submit all applicable work plans including but not limited to; asbestos abatement plan, waste disposal plan, safety plan, LOTO plan etc. as noted herein or as required by specification section. In the event of a deviation between these requirements and the specifications, BOTH will be required.
0.7	Scope of Work: Contractor shall provide new air conditioning unit with copper fins on copper tubing. Unit shall be double wall construction with stainless steel liner and with an outside air intake to be constructed of stainless steel sheet metal. A new fan wall unit shall be provided and installed to provide proper air flow for the mechanical area itself.
0.8	Scope of Work: Contractor shall install new electrical from existing disconnect; install new ductwork as needed; and seal/insulate all new ducting and piping. Contractor shall also install new chilled water piping to the chilled water coil and new heating hot water piping to the heating coil.
0.9	Scope of Work: Contractor is responsible to temporarily cap off and restore the fire sprinklers as needed.
0.10	Scope of Work: Contractor shall insure that the new unit will be installed with vibration isolators

	and proper seismic bracing to meet all applicable seismic codes for San Diego, Seismic Zone 4.
0.11	Scope of Work: Contractor shall provide new DDC Controls and integrate into the existing hospital Metasys System. The digital controls shall include but not be limited to air flow sensors, air temperature sensors, water GPM's, CFM's, VFD status, Control Valve positions, etc. Contractor shall perform air and water balance on the newly installed system to insure proper operation.
0.12	Scope of Work: Contractor shall clean main and branch air ducting from new unit to existing supply air registers/diffusers as shown on the drawings served by the unit before turning on new unit to ensure that dust/debris do not go into hospital areas served by the unit. This also includes installation and removal of filter media on existing registers, HEPA Vac low pressure and high pressure supply ducts, and any pre-operational recommendations by HVAC unit manufacturer. Contractor shall verify with VA Project Manager that all aforementioned work has been completed prior to initial operation and testing of unit.

1.0 – SPECIFICATIONS

Item	Section No.	Description of Change
1.1		Refer to RFI responses provided under separate cover.

2.0 – DRAWINGS

Item	Drawing No.	Clarification Dwg. No.	Description of Change
2.1			Refer to RFI responses provided under separate cover.

3.0 – QUESTIONS AND ANSWERS

The following questions and answers are provided as a matter of information to clarify issues raised about the Contract Documents. To the extent that changes to the Contract Documents are required based on the questions received, the Contract Documents have been modified as noted above in the Specifications and Drawings sections of this Addendum.

3.1	See existing AC28 Fan Profile attached.
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4.0 – INFORMATION

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Item	Description
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END OF ADDENDUM

AC28 FAN PROFILE (EXISTING)

FAN NO.: AC-28
LOCATION: 5TH FLOOR EAST INTERSTITIAL (GRID NO. 55-13L-28)
AREA SERVED: PATIENT CARE
FAN MFG: TRANE WHEEL DIAMETER: 27" TYPE: AF
ARRANGEMENT: DWDI CLASS: II DISCHARGE: THD

	<u>DESIGN</u>	<u>ACTUAL</u>
TOTAL CFM:	<u>20000</u>	<u>20000</u>
STATIC PRESS:	<u>5.0"WG</u>	<u>5.0"WG</u>
SUCTION PRESS:		<u>1.0"WG</u>
DISCHARGE PRESS:		<u>4.0"WG</u>
MOTOR MFG.: <u>GENERAL ELECTRIC</u>		
HORSEPOWER:	<u>25HP</u>	VOLTS/PHASE: <u>460/3</u>
MOTOR RPM:	<u>1750</u>	MOTOR FRAME: <u>284T</u>
MOTOR AMPERAGE:	<u>FULL LOAD</u>	<u>RUNNING LOAD</u>
	<u>27.9</u>	PHASE A: <u>24</u> PHASE B: <u>24</u> PHASE C: <u>24</u>
MOTOR SHEAVE SIZE:	<u>3B5V58</u>	MOTOR SHAFT SIZE: <u>1-7/8"</u>
FAN SHEAVE SIZE:	<u>3B5V68</u>	FAN SHAFT SIZE: <u>1-15/16"</u>
FAN RPM:	<u>1503</u>	BELT SIZE: <u>5VX710(3EA)</u>
PRE-FILTER SIZE:	<u>24" X 24" X 12" (10EA)</u>	<u>45%</u>
	<u>12" X 24" X 12" (5EA)</u>	<u>45%</u>
AFTER-FILTER SIZE:	<u>24" X 24" X 12" (10EA)</u>	<u>85% (WITH HEADERS)</u>
INTAKE SOUND ATTENUATOR SIZE:	<u>144" X 30" X 36"</u>	MAXIMUM PD: <u>.15</u>
DISCHARGE SOUND ATTENUATOR SIZE:	<u>72" X 36" X 36"</u>	MAXIMUM PD: <u>.30</u>
OUTSIDE AIR INTAKE SIZE:	<u>12' X 3'</u>	

COIL PERFORMANCE

	<u>HOT WATER COIL</u>	<u>CHILLED WATER COIL</u>
FIN HEIGHT X FIN LENGTH:	<u>53.5" X 120"</u>	<u>53.5" X 120"</u>
ROWS DEEP X FINS/INCH:	<u>2ROWS X 8"</u>	<u>6ROWS X 8"</u>
FACE AREA:	<u>44.58SF</u>	<u>44.58SF</u>
SUPPLY AIR CFM:	<u>20000</u>	<u>20000</u>
ENTERING AIR TEMP:	<u>38DEG.F(DB)</u>	<u>87DEG.F(DB)</u> <u>71DEG.F(WB)</u>
LEAVING AIR TEMP:	<u>55DEG.F(DB)</u>	<u>55.0DEG.F(DB)</u> <u>53.2DEG.F(WB)</u>
AIR PRESSURE DROP:	<u>.13"WG</u>	<u>.37"WG</u>
ENTERING WATER TEMP:	<u>200DEG.F</u>	<u>42DEG.F</u>
LEAVING WATER TEMP:	<u>140DEG.F</u>	<u>58DEG.F</u>
WATER PRESSURE DROP:	<u>3'WG</u>	<u>7.64'WG</u>

FACE VELOCITY:	<u>450SFPM</u>	<u>450SFPM</u>
GALLONS PER MINUTE:	<u>24.5GPM</u>	<u>140GPM</u>