

**CCIW – Labs/AHU Upgrade**  
**Questions from Bidders**

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**December 3<sup>rd</sup>, 2015**

A1. Have all of the previous addendums been incorporated into the specifications and drawings?

Response: The previous addenda have been incorporated into the bid documents. However, the bidders are still responsible to understand the drawings and specifications of this tender. Documents from the previous tender will not be applicable to this Contract.

A2. Please confirm the location of our Network Control Panel for the potential sound masking installation at 867 Lakeshore Rd, 5th floor. Electrical requirements, cut sheet and sound masking layout is attached:

Response: Refer to detail 3/E2.10 keynote 5

B1. On drawing M2.11 the DCW, DHW and DHWR lines in the upper right corner have no indication of sizing. Please clarify the sizes of the lines.

Response: Pipe sizing is as follows: DCW 1 ½" diameter, DWH 1 ½" diameter, DWHR ¾ "diameter.

B2. Specification section 23 07 13 schedule 3.4 refers to using TIAC C-1 Rigid mineral fibre board insulation on round ductwork. Is pipe and tank insulation an acceptable alternative? This will provide the same if not increased R-value, will create a more appealing fit and will save a significant amount of money because of the reduced labour.

Response: Provide insulation per specifications.

B3. General note 5 on drawing M2.03 refers to applying a PVS jacket on all insulated refrigerant piping. While section 23 07 15 schedule 3.5 states that we are to use an aluminum jacket on all exterior applications. Please advise us on the type of jacket that is to be used for the exterior refrigerant piping.

Response: Jacketing should be aluminum per specifications.

B4. Are we to assume that the refrigerant lines on drawing M2.03 are pre insulated and only require a recovery jacket for piping outdoors?

Response: Refrigerant piping is to be insulated per specifications.

B5. What size are the refrigerant lines on drawing M2.03?

Response: Refrigerant piping is to be sized by equipment supplier.

B6. There is no indication of how the refrigerant lines are run on drawing M2.03. Is there an amount of linear feet and elbows that can be applied in order to include an accurate jacketing quotation?

Response: The location of the new rooftop compressor unit is directly almost above the connection point in the corridor shown on M2.02. Piping at the ground floor level is to be provided as required to connect to the existing systems.

C1. Prior to the removal of the vertical transite exhaust ducts, will the mechanical trade be able to isolate the glass drain piping located in front of them?

Response: Shut down or dismantling of the acid drainage piping is not anticipated but any shutdowns or interruption of service is to be coordinated with the Owner.

C2. Will the steam lines be able to be shut down prior to the insulation abatement in the WTC Penthouse?

Response: Any shutdowns or interruption of service is to be coordinated with the Owner.

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**December 4<sup>th</sup>, 2015**

A1. Drawing A0.02 - Fume Hoods: The two laminar flow hoods shown on the fume hood legend do not appear in the fume hood section 11 53 13. Were they omitted from the specifications intentionally, who is providing them? If we are to provide them, please provide more details.

Response: The laminar flow hoods will be provided by the owner.

B1. Drawing A2.10 - Detail 3/A2.10, Elev 2/A2.11 on floor plan Shows movable casework, yet actual elevation shows fixed casework. Which is correct?

Response: The note 'movable casework' in Laboratory L527 on drawing 3/A2.10 should be ignored. This casework is to be fixed, as indicated in 2/A2.11 (and casework schedule A0.02).

B2. Drawing A2.10 - Detail 3/A2.10, Floor plan shows open shelving. Elev 7 & 10/A2.11 shows an empty spot for the knees in a sitting area, no shelving. Which is correct? Do you want an open knee space, or are the wall cabinets with doors incorrect and you want open shelving instead?

Response: The note for open shelving on drawing 3/A2.10 should be ignored. Follow the casework as noted in Elevation 7 & 10/A2.11 (and casework schedule A0.02).

C1. Drawing A2.11 - Detail Elev 2: Should the J1-762-610 be changed to H2 (or H3) 762-610 as indicated on detail 1/A0.02 Casework Typical Elevations? Or is there something else different that the J1 represents? Is this typical of all the "J1: designations?

Response: Yes, all "J1" designations should be read as "H2/H3".

C2. Drawing A2.11 - Detail Elev 3: Is this fume hood to receive a tag FH-1-1524?

Response: Yes

D1. Drawing A2.21 - Detail Elev 8: There is not a note "7" pertaining to under shelf LED task lights. The opposite side of this bench has LED lighting. Everywhere else there is lighting. Were the lights on this side intentionally omitted?

Response: Please include under shelf LED task lights (note 7) under the shelving units in the three island tables shown in drawing 8/A2.21.

D2. Drawing A2.21 - Detail Elev 8: These tables look ideal for Mott's Altus table system. The drawing shows the electrical receptacles in the side vertical post. Altus does that. There is a cord that comes out the top of the vertical post. The cord is supposed to plug into an electrical receptacle in the ceiling panel. We can supply the ceiling panels with the electrical receptacles. Normally these are shown on the reflected ceiling plans, but did not see them. Shall I include these ceiling panels? The electrician is to connect to them above the ceiling. I sent you some catalogue info so you can see how the product comes. This also applies to the gas services. We'll also include the hoses from the top of the table post to connect to the ceiling panel. Please review Altus attachment and let me know if this solution to provide services from the ceiling is okay.

Response: The solution to provide services from the ceiling is acceptable. Refer to drawing E2.20 for power connection requirements via overhead carrier.

E1. Specification section: (22 15 00 – General Service Compressed Air Systems) is missing from the tender documents. We need this information to price the compressed air outlets in the labs. Can you please forward this on to the appropriate channels?

Response: Compressed air is addressed in spec section 22 63 23.