



PARIC CORPORATION
77 Westport Plaza Suite 250
St. Louis, MO 63146
TEL: 636-561-9500
FAX: 636-561-9501

REQUEST FOR INFORMATION	DATE: February 10, 2017	NO.: RFI-442
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To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Devin Gates

Project Name:	15051-Webster University Interdisciplinary Science Building	Project No.: 15051
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Subject: Condensate draining on roof

Response Required By: February 17, 2017

Drawing / Spec Reference:

Information Requested:

Please advise if the condensate from various equipment can drain onto the roof and sheet flow to the adjacent roof drains. If this is not acceptable, please advise if the proposed condensate pipe routing is acceptable. The piping of the condensate has an estimated cost of \$6k.

Response:

- 1. Condensate shall not drain onto roof or sheet flow to adjacent roof drains.
- 2. Contractor proposed pipe routing is not acceptable, and incorrectly shows condensate drain piping for ACCU-3 and ACCU-4, which is not required, since air-cooled condensing units do not require condensate drain piping. Refer to drawings and details for locations of condensate drain piping from associated indoor unit evaporators. Revise/Reduce cost estimate accordingly.
- 3. Contractor has estimated the cost of the Contractor proposed routing but has not indicated pipe sizes or material. Provide detailed cost breakout for review.
- 4. Refer to forthcoming ASI-051 for updated condensate drain routing associated with HEF-1 heat recovery coils.

ARCHITECT'S RESPONSE:

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Answered By: Mike Nolte, WTA

Date: 3/6/17

GENERAL NOTES:

- A. Because of the limited space available to install all of the mechanical work, coordination between the various trades is of the utmost importance. This contractor shall coordinate with all other trades prior to the fabrication and installation of any work.
- B. Refer to the reflected ceiling plans for ceiling construction, ceiling grid layout, ceiling mounted devices, and coordinate exact location and mounting type of all air devices.
- C. All ductwork upstream of terminal units shall be Medium Pressure (MP). All ductwork downstream of terminal units shall be Low Pressure (LP). Refer to specifications.
- D. All ductwork dimensions indicated on plans are sheet metal sizes. All medium pressure ductwork shall be unlined, externally insulated. All low pressure ductwork shall be lined. See specifications.
- E. All mitered 90° rectangular elbows shall be furnished with turning vanes having maximum c = 0.12. All smooth radius rectangular elbows shall have a throat radius greater than one half the duct width, unless furnished with splitter vanes. Under no circumstances shall the throat radius be less than one third the duct width. Unless otherwise noted or specified.
- F. Contractor shall furnish and install volume dampers for each duct take-off unless otherwise noted. See detail.
- G. Maximum length of Low Pressure (LP) flexible ductwork shall be 8'-0". Round LP duct of lengths greater than 8'-0" shall be rigid round. Flexible duct sizes on plans shall be neck size of diffusers or as indicated. See specifications.
- H. Maximum length of Medium Pressure (MP) flexible ductwork shall be 2'-0". Round MP duct of lengths greater than 2'-0" shall be rigid round. Flexible duct sizes on plans shall be air Terminal Unit inlet size or as indicated. See specifications.
- I. All ductwork runouts to Air Terminal Units and diffusers shall be the connection size unless otherwise noted.
- J. Piping runouts to terminal units shall be 3/4" unless otherwise noted. Refer to reheat box schedule.
- K. Verify exact location of thermostats, humidistats, BAS sensors, and other exposed control sensors with architectural elevations and drawings before installation.
- L. Schedule systems or equipment shut downs required for new construction with owner two weeks in advance. Some premium time work may be required.
- M. Refer to piping details for final connections to equipment.
- N. Provide service shut-off valves in major piping branch lines. All connections to risers and each building wing: A & B.

KEYED NOTES

M12 BOILER AND DOMESTIC WATER HEATER FLUES UP THROUGH ROOF.

M40 RAIN HOOD OVER MOTORIZED BYPASS DAMPERS FOR MAINTAINING STACK DISCHARGE VELOCITY.

M67 LOCATION FOR REFRIGERANT PIPING FOR COOLER, SEE ARCHITECTURAL SPECIFICATIONS AND DRAWINGS. PIPING SHALL BE INSTALLED PER COOLER SUPPLIERS REQUIREMENTS.

M68 CONDENSING UNIT LOCATION FOR COOLER ON LEVEL 3, SEE ARCHITECTURAL SPECIFICATIONS AND DRAWINGS. INSTALL UNIT AND PIPING PER COOLER SUPPLIERS REQUIREMENTS AND MOUNT ON SUPPORTS SHOWN ON ARCHITECTURAL DRAWINGS.

