FIELD REPORT-Mechanical

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TO: Frank John di Stefano, ADG
CC: Cecilia Vaniman, MSU
Don Platisha, CMS

Date of Visit: 2/8/12 & 2/9/12
Project: MSU Cooley Lab Renovation
GDP Job No.: 100104
Location: Bozeman, MT
Contractor: Dick Anderson Construction, Tri-County Mechanical, Williams P&H, Electro Controls
Present at Site: Don Platisha (CMS), Tim Tholt (DAC), Greg Schermele (DAC), Ray Wagner (Williams), Larry (TCME), Dave Broquist (GPD),

Purpose of Visit:

The purpose of the visit was to check on construction progress, meet the contractors, conduct a brief walkthrough, and see if there were any new mechanical issues.

Project Status:

- The basement level slab is mostly complete. New piping has been installed and backfilled. The three isolation slabs for the laser lab tables have been placed. Block walls are being constructed.
- Limited MEP work has begun in the basement. Temporary heat is on and functioning well.
- The elevator shaft is now mostly framed and below grade work is completed.
- The piping mains have been assembled down the hallway on all floors except the basement and most branch piping appears to be in place as well now. Most or all walls have been framed throughout on floors one through four. Most ductwork is complete on floors one through four although none of the hydronic booster coils were noted to have been installed yet.
- Mechanical work is beginning in the penthouse. The air handlers are due to arrive in the next two weeks.
- Placement of structural steel and decking on the roof appeared to be complete. Roof panels are being installed.

Items of Discussion:

- A significant amount of time was spent looking at the fire/smoke damper installations and the shaft construction with access to the smoke detectors inside the ducts being the most difficult condition to address in most cases. Several options are being considered, including relocation of the installed detectors or replacement with a style that mounts from outside the duct. Other options include improving access by making sections of pipe or insulation removable. The vendor of the dampers is being contacted to help identify the best options.

- Several fan coils are very tight in the spaces they serve. Access for maintenance is the single most important factor regarding unit location. It is not believed that moving any of the units is necessary.
- The routing of the supply air duct serving the corridors at the east end of third and fourth floor continues to present challenges. The best option discussed seems to be to route the duct as high as possible at the north side of the corridor, turn it north over the sink cabinets and then turn it south again with the supply diffusers centered in the corridor. This approach will be presented to ADG and MSU for approval.
- The layout, spacing and clearance requirements of the equipment in the lower level mechanical room were discussed. The dimensions of the heating water converter support rack were noted to be flexible and that will likely allow enough latitude to ease congestion between the convertors and the heat pump inertia base.
- The location and pipe routing to the two new exterior hose bibbs was discussed. Although it was previously discussed that the unit on the north side of the building was not necessary, it is now thought to be a good idea for the purpose of cleaning the cooling tower since a tall fence is being considered at the east end of the utility yard.

Deficiencies:

- It was previously reported that the appearance of the PVC coated ducts was problematic. It is now reported that the ducts will be painted.
- As a reminder, the security of the pipe supports where services leave wall cavities should be checked before the sheet rock goes on. These must be very secure.

END REPORT