

FIELD REPORT-Mechanical

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

Date of Visit: 8/31/11
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: Cecilia Vaniman (MSU), Frank di Stefano (ADG), Don Platisha (CMS), Tim Tholt (DAC), Greg Schermele (DAC), Kirk Scheel (DAC), Ray Wagner (Williams), Larry (TCME), Brad Kauffman (GPD), 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 attend the construction meeting with the mechanical and electrical contractors. Mechanical systems shop drawings were discussed at some length and two major binders were returned from GPD. A decision was made to have the contractors revise the entire binders since so much of the material was lacking adequate information to allow approval in their current condition.

We discussed that RFP's are forthcoming for a couple of diffusers, pipe tees near the electrical closets for future heating/cooling, a gas meter Cooley and a gas regulator for Lewis.

I arrived at the site at 11:00AM and attended the construction meeting until 12:00PM. I then left the site for about an hour, then returned and toured the site and met with the subcontractors until 4:30PM.

Coordination of MEP Systems:

- The arrangement of piping, ductwork and electrical that was discussed during my previous site visit was being followed and seemed to be working quite well on the fourth and third floors.

Project Status:

- Demolition appears to be complete or very nearly so. There is still some demolition to be done in the lower level and on the roof.
- Mechanical work is continuing on the fourth floor where approximately 2/3 of the piping has been installed, 1/3 to 1/2 of the ductwork has been place, a couple of Phoenix air valves are in place and Electro Controls is installing conduit. Most or all walls are framed and sheet rock is being installed. The fire sprinkler contractor is on site and working.

- The piping mains are being assembled down the hallway on the third floor with some branch piping being installed as well. Ductwork is being hung in various locations. Conduit is also being run and walls are being framed. The fire sprinkler contractor did not appear to be working yet.
- The steam and other service lines that extended to the ARC over the elevator pit area have been relocated to allow unobstructed structural construction access.
- Overall, the workmanship appears to be very good and work appears to be highly coordinated and orderly.

Deficiencies:

- All materials appeared to be per specification and in clean, new condition. For the most part the open ends of piping and ductwork was being covered to protect it from dust.
- A couple of strut clamps were noted without elastomeric liners and Ray indicated these are temporary.
- In the main pipe riser closet a piece of strut with a pipe clamp was used for a vertical pipe support. This is not an acceptable substitute for actual pipe clamps.
- While most of the piping is being installed in a very neat and well thought order, a couple of PVC R-O water lines appeared to be out of level. These are also drooping quite a lot and present a challenge. A solution to the drooping needs to be investigated and instigated soon. A starting place will be for the contractor to provide support instructions from the piping manufacturer. Specification Section 15090 calls for plastic pipe to be supported at manufacturer's recommended intervals for 100F service.
- 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.
- The relocated steam line at the elevator pit is clamped to strut on the wall which will (at least attempt to) restrict the thermal expansion of the pipe. This pipe should be hung from the structure above to allow thermal expansion.

END REPORT