Meeting Time & Location  University of Oregon, Walton Hall, Dyment Room
November 4, 2009, 8:00 AM – 12:00 PM

From  Lee Kerns

Those Present  UNIVERSITY OF OREGON
Cathy Soutar  Terrie Scharfer
Brad Black  Bill Mirabella
Gordon Melby

ZIMMER GUNSUL FRASCA ARCHITECTS LLP
Lee Kerns  Milena DiTomaso

BALZHISER & HUBBARD
Grant Bowers  Kevin Swallow
Dale Stadler  Mark Penrod

Distribution  Those present, Fred Tepfer, George Bleekman, Tom Driscoll, Allen Gidley, Sandy Schoonover, Virginia Cartwright, Sean Landry, Jon Erlandson, Ryan Wagner, Adrian Ho, Susan Lesyk, Martina Bill, Emily Eng, Aly Stanton, Lisa Cline, Stephanie Coyle, Mark Foster, Sue Kerns, Joanna Brickman, Josh Peacock, Franco Rosete, and Master File

1. Purpose of the Meeting
This was the third joint meeting with the University Housing, Facilities Services and Public Safety Staff. The purpose of this meeting was to review the MEP SD drawings dated October 30, 2009 that had just been issued for Owner review. Attached are meeting notes from Balzhiser & Hubbard Engineers and the SD review revised schedule from UO.

END OF MEETING NOTES

Attachments:  Balzhiser & Hubbard Engineers meeting notes dated 11/04/09
SD Review Revised Schedule dated 11/03/09

LK/ctc
To: Company: November 4, 2009
Project: U of O, East Campus Residence Hall
Subject: UO ECRH - MEP SD doc review/explanation
Meeting Date: November 4, 2009
Attended By: BHE: Grant Bowers, Kevin Swallow, Dale Stadler, Mark Penrod
Author: C. Mark Penrod, P.E., LEED® AP

Meeting on November 18 is to go over the comments from UO Housing. (MEP will be 9:00 – 10:00 AM, see revised schedule.)

Drawings have been distributed to Hoffman. Estimate is expected on November 16. BHE may get some calls from the estimators.

- Mechanical
  - Owner is okay with plan to use chilled water fan coils for each data closet. Just want a non-locally-adjustable sensor from the direct digital controls system to control the room temp. 80°F is OK for set point.
    - Concern was expressed regarding chilled water fan coil coils freezing up. High humidity issues in some locations at Living Learning Center caused this. Pointed out that the data closets will be very dry.
    - Later discussion confirmed that the coils that were freezing up were on direct expansion systems not chilled water systems.
  - Basement Data Center: Will consider water cooled racks (haven't really, yet). They likely do want this equipment on standby power.
  - Noted we are not currently showing heat recovery from the electrical spaces, yet. We have a great deal of excess heat, currently. Wait to see where the budget lands (estimate). If okay, then we may add this.
    - Also discussed potential for heat recovery from food service equipment heat rejection. Not clear yet whether equipment will be air cooled or water cooled. Owner likes water cooled. Food Service and UO to work through and determine.
  - Two-story east rooms will not have natural ventilation capability. Elimination of these ducts will give us more space for the other utilities.
    - Discussed possibly air-conditioning these rooms with a 4-pipe fan coil system.
  - Main towers: Architects are currently expecting that the ducts will be in rated shafts. Will need fire/smoke dampers at each horizontal penetration. Shaft will extend up through the attic space to the termination point in the louver box.
  - Tunnel connection: Want leak detection at the connection point between ECRH basement and the connector tunnel.
• Plumbing
  o Reviewed impacts of the Eugene Water Electric Board requirement for a reduced pressure backflow preventer device for the whole building.
    ▪ Will need booster pump assembly serving the top floor of the North tower.
    ▪ Will need to use piston style flush valves on 3rd and 4th floors. Other areas can use diaphram.
    ▪ Does the Owner want to just standardize on piston valves throughout? They like this, but will confirm on the 18th.
  o They liked the idea of locating shower heads/valves so that an access door for maintenance can be placed on the back side of the valve.

• Electrical
  o Dale went through the SD drawings and reviewed items that have changed from the last presentation.
    ▪ Doors to transformer and electrical rooms have been changed to open outwards, with panic hardware.
  o Owner wants significant empty capacity in the electrical panels for the kitchen. They will better define how much in their comments.
  o Reviewed standby power. Owner wants walk-in coolers/freezers on standby power.
  o Life Safety transformer is located in the basement, next to the primary transformer. There are standby panels planned on the upper levels.
  o Discussed fire egress & ADA: Currently not planning to use elevators for emergency egress. A question has been submitted to the City about whether we need Areas of rescue assistance? UO current policy is to go to each ADA room and get the people.

END
ECRH Schematic Design Review Revised Schedule

**Wednesday Nov 4 - SD Intro/Discussion #1 @ Walton Hall, Dyment Room**
- 9:00-12:00 Mechanical/Electrical/Plumbing  
  *UH staff:* Terrie Scharfer, Gordon Melby, Bill Mirabella, Brad Black  
  *Other staff:* Del McGee (unable to attend)
- 1:00-2:00 Central Power Station  
  *UH staff:* Terrie Scharfer, Gordon Melby, Bill Mirabella, Brad Black

**Thursday Nov 5 - SD Intro/Discussion #2 @ Walton Hall, Dyment Room**
- 8:30-9:00 Recycling/Garbage  
  *UH staff:* Tom Driscoll; Sandy S (absent), Nicholas Stanley (absent), David Rogers, Bonnie Damewood, Terrie Scharfer, Gordon Melby (absent), Bill Mirabella, Brad Black  
  *Other staff:* Jim Fleck, Tad Lueck
- 9:00-11:00 Site/Landscape/Parking  
  *UH staff:* Tom Driscoll; Sandy S (absent), Nicholas Stanley (absent), David Rogers (absent), Bonnie Damewood, Terrie Scharfer, Gordon Melby (absent), Bill Mirabella, Brad Black  
  *Other staff:* Roger Kerrigan (unable to attend), Vince Babcock, Clark Hansen (absent), Herb Horner (unable to attend), Lonnie Ekstrom (absent), Bill Anderson (absent)
- 11:00-12:00 Environmental Health and Safety  
  *UH staff:* Terrie Scharfer, Gordon Melby, Bill Mirabella, Brad Black (absent)  
  *Other staff:* Drew Standridge, Chuck Campbell (absent)
- 1:00-2:00 Lockshop/Security/Alarm/Public Safety (security)  
  *UH staff:* Gordon Melby, Terrie Scharfer; Sandy Schoonover (absent), Brad Black (absent)  
  *Other staff:* Kirk Gilbert, Ken Straw (unable to attend), Clark Hansen (absent), Herb Horner (unable to attend), Lonnie Ekstrom (absent), Bill Anderson (absent)
- 2:00-3:00 Voice/Data/AV  
  *UH staff:* Terrie Scharfer  
  *Other staff:* Dale Smith (unable to attend), Dave Barta (absent), Jeff Hite
ECRH Schematic Design Review Schedule

**Wednesday Nov 18 - SD Follow-up Meeting** @ Walton Hall, Dyment Room

- **8:00-9:00** Lockshop/Security/Alarm/Security
  - *UH staff*: Gordon Melby, Terrie Scharfer, Sandy Schoonover, Brad Black
  - *Other staff*: Kirk Gilbert (absent), Ken Straw, Clark Hansen, Herb Horner (Lonnie Ekstrom- absent), Bill Anderson

- **9:00-10:00** Mechanical/Electrical/Plumbing
  - *UH staff*: Terrie Scharfer; Gordon Melby, Bill Mirabella (absent), Brad Black

- **10:00-11:00** Central Power Station (CANCELLED by B. Black for review of Architectural Issues)
  - *UH staff*: Terrie Scharfer; Gordon Melby, Bill Mirabella (absent), Brad Black
  - *Other staff*: Del McGee (rescheduled)

- **11:00-12:00** Voice/Data/AV
  - *UH staff*: Terrie Scharfer; Gordon Melby (absent), Bill Mirabella (absent), Brad Black
  - *Other staff*: Dale Smith, Dave Barta (absent), Jeff Hite

- **1:00-1:30** Recycling/Garbage
  - *UH staff*: Tom Driscoll (absent); Sandy S, Nicholas Stanley (absent), David Rogers, Bonnie Damewood, Brad Black
  - *Other staff*: Jim Fleck, Tad Lueck (absent)

- **1:30-2:30** Site/Landscape/Parking
  - *UH staff*: Tom Driscoll (absent); Sandy S, Nicholas Stanley (absent), David Rogers, Bonnie Damewood, Brad Black
  - *Other staff*: Roger Kerrigan, Vince Babcock, (DPS absent)

- **2:30-3:00** Environmental Health and Safety
  - *UH staff*: Terrie Scharfer, Gordon Melby, Bill Mirabella (absent), Brad Black
  - *Other staff*: Drew Standridge (sick), Chuck Campbell (absent)