

**Campbell Hall Renovation
MECHANICAL & ELECTRICAL DESIGN**

HISTORIC BUILDING

Owner:
Western Oregon University
345 N Monmouth Avenue
Monmouth, OR 97361
Steve Miller (503) 838-8070

Client:
McBride Architects, PC
PO Box 13705-0705
Portland, OR 97213
Skip Fresn (503) 916-1808

Project Start: October 1993
Project Finish: July 1995
Facility Type: Educational
Building Age: Built 1871
Construction Cost (Total): \$2,150,000
Construction Cost (EESI Portion): \$801,800
Engineering Fees: \$34,130
Project Size: 25,765 square feet

EESI Staff Involved: Fred Shaub, Randy Boyd, John Balaam, Tim Thatcher, & Dan Pullen.

Project Description: Campbell Hall is the oldest building (1871) in Oregon's university system that is still used based on its original intent, in this case as a fine arts building. Complete with department offices, lecture halls, studios, and galleries, the building has been restored and remodeled throughout, including the addition of a special seismic protection system.

EESI performed full mechanical, HVAC, plumbing, electrical power, and lighting design documents for this historic renovation project. Energy Code Compliance forms were completed for both mechanical and electrical.

Design included revamp of the steam radiation system to hydronic heat and modern air distribution system throughout. The new HVAC system included 13 air handlers with economizer capability and chilled water coils for the future addition of air conditioning. Design provided upgrade for indoor air quality per UBC Chapter 12. A new Building Automation System (BAS) was designed to be integrated with the existing system on campus. Plumbing design included bringing plumbing fixtures into ADA code compliance.

A complete new electrical system was designed. It included a new 800 amp main distribution panel fed by a dry-type 300 KVA transformer.

Seismic design involved all HVAC piping, ductwork, plumbing, and electrical raceways extending from the basement to the upper floors included a flexible joint to allow at least six inches of lateral movement in the event of an earthquake.

**Valsetz Dining Hall Remodel
MECHANICAL DESIGN**

REMODEL

Owner:
Western Oregon University
345 N Monmouth Avenue
Monmouth, OR 97361
Steve Miller (503) 838-8070

Client:
McBride Architects, PC
PO Box 13705-0705
Portland, OR 97213
Skip Fresn (503) 916-1808

Project Start: May 1995
Project Finish: May 1995
Facility Type: Educational
Building Age: Built 1971
Construction Cost (EESI Portion): \$7,000τ
Engineering Fees: \$487
Project Size: 3,488 square feet

τ Estimated

EESI Staff Involved: Fred Shaub & Ron Phelps.

Project Description: Design of air distribution system modifications for remodel of dining facility.

**Werner College Center
MECHANICAL, ELECTRICAL, & CONTROLS DESIGN**

ADDITION

Owner:
Western Oregon University
345 N Monmouth Avenue
Monmouth, OR 97361
Kathrine Shears (503) 838-8239

Client:
McBride/Seder Associated Architects
PO Box 13705-0705
Portland, OR 97213
Richard "Mac" McBride
(503) 916-1808

Project Start: January 1996
Project Finish: February 1999
Facility Type: Educational
Building Age: Built 1960
Construction Cost (Total): \$1,600,000
Construction Cost (EESI Portion): \$331,324
Engineering Fees: \$44,969
Project Size: 21,500 square feet

EESI Staff Involved: Fred Shaub, Ron Anderson, Randy Boyd, Jim Cook, Ron Phelps, & John Balaam.

Project Description: Provided HVAC, plumbing, and electrical power/lighting design for new kitchen, dining and bookstore addition.

The Main Campus underground steam distribution services existed under the new addition. Design included renovation and rerouting a portion of the accessible steam tunnel service and sanitary sewer system.