

**New Gym Addition & Remodel @
Grant & Liberty Elementary Schools
MECHANICAL & ELECTRICAL DESIGN**

ADDITION & REMODEL

Owner:

Salem Keizer School District
3630 State Street
Salem, OR 97301
Frank Corder (503) 399-3457

Client:

Ronald J. Ped Architecture
4742 Liberty Road S
Salem, OR 97302
Ron Ped (503) 363-1456

Project Start: November 1992

Project Finish: June 1994

Facility Type: Education

Construction Cost (Total): \$1,238,200

Construction Cost (EESI Portion): \$241,850

Engineering Fees: \$17,200

Project Size: Grant 6,950 sf
Liberty 8,680 sf

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

Project Description: New gymnasium with Music Room building additions and remodel of Media center at both schools (Grant and Liberty Elementary Schools) plus remodel of offices at Grant Elementary School.

EESI provided the mechanical and electrical design of new gymnasium/music room additions, and remodeled areas which included media center and office areas. Mechanical included HVAC and plumbing systems. Electrical included lighting, power, and low voltage systems.

**New Gym & Renovations @
Auburn & Cummings Elementary Schools
MECHANICAL, ELECTRICAL, & CONTROLS DESIGN
CONSTRUCTION MANAGEMENT**

ADDITION & RENOVATION

Owner:
Salem Keizer School District
3630 State Street
Salem, OR 97301
Frank Corder (503) 399-3457

Project Start: October 1993
Project Finish: December 1994
Facility Type: Education
Building Age: Auburn built 1955
Cummings built 1953

Client:
Ronald J. Ped Architecture
4742 Liberty Road S
Salem, OR 97302
Ron Ped (503) 363-1456

Construction Cost (Total): \$830,350
Construction Cost (EESI Portion): \$238,008
Engineering Fees: \$15,800
Project Size: Auburn 9,140 sf
Cummings 9,860 sf

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

Project Description: New gymnasium, classroom addition, and renovations at Auburn Elementary School and new gymnasium and renovations at Cummings Elementary School.

Design of HVAC, power, lighting, plumbing, and controls, for Media Center addition and remodel of offices and classrooms.

**HVAC Upgrades for 7 Gymnasiums
MECHANICAL DESIGN**

ENERGY UPGRADES

Owner/Client:
Salem Keizer School District
Central Service Center
3630 State Street
Salem, OR 97301-5316
Reg Fansworth (503) 399-3457
Marshall McKillip (503) 399-3457

Project Start: February 1999
Project Finish: November 1999
Facility Type: Educational
Building Age: Built between 1910 - 1964^σ
Construction Cost: \$126,114
Engineering Fees: \$10,150
Project Size: 33,600^ψ

^σ Building age included in list below

^ψ 60-foot x 80-foot gyms = 4,800 square feet x 7 gyms = 33,600 square feet for total project

EESI Staff Involved: Fred Shaub and John Balaam.

Project Description: Design to replace electric furnaces in 7 gymnasiums with gas fired furnaces and programmable thermostats. The gymnasiums were at the following schools:

Hoover Elementary School (Built 1952)
Washington Elementary School (Built 1949)
Kennedy Elementary School (Built 1964)
Richmond Elementary School (Built 1912)
Four Corners Elementary School (Built 1949)
McKinley Elementary School (Built 1915)
Highland Elementary School (Built 1910)

Marion Miller Elementary School
COMMISSIONING & OREGON DEPARTMENT OF ENERGY CASE STUDY

NEW BUILDING

Owner/Client:
Salem Keizer School District
3630 State Street
Salem, OR 97301
Reg Farnsworth (503) 399-3410

Project Start: June 1999
Project Finish: March 2002
Facility Type: Education
Building Age: Built 2000
Construction Cost (Total): \$12,100,000
Commissioning Fees: \$32,660
Project Size: 47,155 square feet

EESI Staff Involved: Fred Shaub, Steve Barney, and Alan Wright

Project Description: EESI provided commissioning services of mechanical and electrical systems for new elementary school. Provided documentation for Oregon Department of Energy case study.

Systems commissioned included:

- BAS & HVAC controls
- Lighting control systems
- Life safety systems
- Communicating & paging systems
- HVAC systems
- Domestic water systems

Building Automation System Specifications
TECHNICAL WRITING

ENGINEERING SERVICES

Owner/Client:
Salem Keizer School District
Central Service Center
3630 State Street
Salem, OR 97301-5316
Frank Corder (503) 399-3410

Project Start: August 1999
Project Finish: November 1999
Facility Type: Educational
Building Age: NA
Engineering Fees: \$3,078.75

EESI Staff Involved: Fred Shaub, Steve Barney, and Ron Anderson.

Project Description: Development of performance specifications for Building Automation System (BAS) for all school in the District. Reviewed guidelines developed by Oregon Department of Energy.

**Grant Community School Addition
MECHANICAL & ELECTRICAL DESIGN**

ADDITION/NEW CONSTRUCTION

Owner:
Salem Keizer School District
3630 State Street
Salem, OR 97301
Lee Weidman (503) 399-3410

Client:
Ronald J. Ped Architecture
4742 Liberty Road S
Salem, OR 97302
Ron Ped (503) 363-1456

Project Start: January 2000
Project Finish: August 2001
Facility Type: Education
Building Age: Built 2001
Construction Cost (Total): \$1,086,850
Construction Cost (EESI Portion): \$243,452
Engineering Fees: \$20,000
Project Size: 13,800 square feet

EESI Staff Involved: Fred Shaub, Dan Pullen, Randy Boyd, John Wallin, & Pete Sanford.

Project Description: This project involved a new two story addition consisting of classrooms, music room, and science room on the Grant Community School site in Salem, Oregon.

EESI provided mechanical and electrical design for new school building addition to the Grant Community School. Mechanical design included HVAC and plumbing systems. Electrical involved power and lighting systems. Low voltage systems were coordinated with the Owner.

**State Farm Building
BUILDING CONDITION ANALYSIS**

EXISTING BUILDING

Owner:
State Farm Insurance Company
4600 - 25th Avenue NE
Salem, Oregon
Jeff Christensen (503) 463-2301

Project Start: July 2003
Project Finish: August 2003
Facility Type: Office Building
Building Age: Built 1969
Engineering Fees: \$2,000
Project Size: 241,069 square feet

Client:
Salem Keizer School District
Central Service Center
3630 State Street
Salem, OR 97301-5316
Jon Bagshaw (503) 399-3410

EESI Staff Involved: Randy Boyd & Fred Shaub.

Project Description: Inspect mechanical and electrical building systems to determine conditions and provided conditions report including cost estimates to correct deficiencies.