

Hood-McNees, Inc.
Consulting Engineers

Hood-McNees, Inc
1923 SE Stark Street
Portland, Oregon 97214
(503) 231-7825

ABOUT US

Hood-McNees, Inc, is the successor to Baisley-McNees and Associates, Inc., an Electrical consulting engineering firm operating from 1970 until 1999. Hood-McNees, Inc., represents the partnership Harold E. McNees, P.E. as an electrical engineer and Clifford M. Hood, P.E. as a mechanical engineer with the purpose of providing the often requested combined services of Mechanical, Electrical and Plumbing design.

The firm has built an excellent record of providing Mechanical, Electrical and Plumbing designs for projects both large and small. We are committed to providing the best service possible and to completing projects on time and within budget.

WHAT WE DO

Hood-McNees, Inc.'s specific areas of expertise include Mechanical Design (HVAC, Plumbing, Controls & Energy Conservation) and Electrical Design (Power Distribution, Lighting design, Telephone, Fire Alarm & Security.) We have applied this expertise to a wide range of residential projects from Custom Homes to 140+ unit Assisted Living Facilities. The range of commercial projects includes from 2300 SF Doctor's Office to 50,000+ SF State Office Building Tenant Improvement. Other projects types we have completed which require specialized skills include: Restaurants, Zoo Exhibits, Park Buildings, Churches, Schools, Community Centers, and Fire Stations. Our completed project list exceeds 1430 projects throughout the region.

The services offered by Hood-McNees, Inc., beyond the traditional full Mechanical/Electrical/Plumbing design package, includes: preparing performance Design/Build specifications, energy analysis reports, ADA upgrades, and an array of specialized lighting services.

WORK CULTURE

We have a small but skilled staff of experienced professionals who understand that our field is a dynamic one, with needs that can change daily. By keeping our numbers small, we maintain a focus on quality and on building direct client relationships. By taking every project personally, we assure that we will attend to every detail and that each task will be coordinated both inside and outside the office. A testament to this commitment is our high rate of repeat clients.

Clifford M. Hood
Mechanical Engineer

Hood-McNees, Inc
1923 SE Stark Street
Portland, Oregon 97214
(503) 231-7825

Clifford Hood has been practicing mechanical engineering since 1979. He has skillfully applied his knowledge to serving the client's needs, producing practical solutions to challenging problems.

REGISTRATIONS

Professional Engineer: State of Oregon, 1983 (No. 12246), Washington (No. 21729), California, Alaska, Montana and an NCEES Certificate, No. 12499.

EDUCATION

Oregon State University, BSME, March 1979

***PROFESSIONAL
BACKGROUND***

HOOD-MCNEES, INC.

Mechanical Dept. Head, 1999 to Present. Experience in operations and management, supervision of technicians, designers, draftspeople. SYSTEM DESIGN CONSULTANTS, INC.,

Vice President, 1993-1999.

THE BENTLEY COMPANY, INC., Portland Branch
Mechanical Dept. Head, 1988-1993.

EXPERIENCE

Design and construction of heating, ventilation, air conditioning and plumbing systems for commercial, industrial, institutional, residential and governmental facilities. This includes a 2 year employment with a mechanical contractor involved in supervising HVAC and plumbing trades for compliance to engineered plans. This experience in the field has proven to be of great value in providing quality contract documents that use efficient construction practices and are understandable by the installers. His responsibilities include all phases of project management, design, building envelope analysis, cost estimating and computer modeling.

***PROFESSIONAL
AFFILIATIONS***

ASHRAE - American Society of Heating, Refrigeration and Air Conditioning Engineers

ASPE – American Society of Plumbing Engineers

CSI – Construction Specifications Institute

IAPMO – International Association of Plumbing and Mechanical Officials

Harold E. McNees
Electrical Engineer

Hood-McNees, Inc
1923 SE Stark Street
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Harold McNees has been practicing electrical engineering since 1977. He has skillfully applied his knowledge to serving the client's needs, producing practical solutions to challenging problems.

REGISTRATIONS

Professional Engineer: State of Oregon, 1981 (No. 11224)
Washington (No. 22647), and six other western states

EDUCATION

University of Portland, BSEE, May 1977

***PROFESSIONAL
BACKGROUND***

HOOD-MCNEES, INC.

Electrical Dept. Head, 1999 to Present. Experience in operations and management, supervision of technicians, designers, draftspersons.

BAISLEY-MCNEES & ASSOCIATES, INC.

Principal, 1977-1999.

EXPERIENCE

Site and building power distribution systems, standby emergency power systems, lighting and lighting control systems, motor control centers, PLC systems, auxiliary systems (fire alarm, telephone, data, intercom, security), energy and load studies, electrical system cost estimating, short circuit & ground fault analysis, circuit breaker/fuse coordination, and value engineering studies.

***PROFESSIONAL
AFFILIATIONS***

IEEE - Institute of Electrical and Electronic Engineers

IES - Illuminating Engineering Society of North America

ACEC – American Consulting Engineers Council of Oregon

NFPA - National Fire Protection Association

Patricia R. O'Linger
Plumbing Designer

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Patricia O'Linger has been practicing plumbing design since 1989. While domestic plumbing systems have been her primary focus for the past ten years, she also has experience providing design support in varied engineering environments, management, and outside sales.

EDUCATION

Allen Thornton Vocational School, Drafting Technology, 1978
Carrier Professional Development Program, 1985

***PROFESSIONAL
BACKGROUND***

HOOD-MCNEES, INC.
Plumbing Designer, HVAC technician, 2002 to Present. Experience in all aspects of domestic plumbing, as well as HVAC support and "Auto-CAD" computer aided drafting.
INTERFACE ENGINEERING, INC.,
Senior Plumbing Designer, 2000-2002.
ROSE TECHNICAL GRAPHICS,
Standards and Quality Control Manager, 1999.
JONES SALES, INC.,
Oregon Outside Sales Representative for commercial plumbing products, 1998-1999.
SYSTEM DESIGN CONSULTANTS, INC.,
Plumbing designer, 1989-1998.

EXPERIENCE

Design of domestic plumbing systems for commercial, industrial, institutional, residential and governmental facilities. Her year of employment with a manufacturer's representative in outside sales provided experience communicating with plumbing contractors and wholesalers, and has proven to be of great value in understanding the cost dynamics of project construction. Her responsibilities as a standards and quality control manager has provided her with more insight on how to produce high quality design documents.

***PROFESSIONAL
AFFILIATIONS***

ASPE – American Society of Plumbing Engineers
(Past Oregon Chapter President)

James (Jay) J. Yelton
Electrical Designer

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Jay Yelton has been practicing Electrical Design since 2001 and has gained diverse experience related to electrical systems for residential, commercial, institutional and industrial facilities.

EDUCATION

Clackamas Community College - Associates Degree,
Drafting Technology, 1992.
Illuminating Engineering Society – ED50, ED100 Lighting Design

***PROFESSIONAL
BACKGROUND***

HOOD-MCNEES, INC.
Electrical Designer, 2001 to Present
YELTON, INC.
Manufacturer of specialized Construction Equipment, 1994-2001
BAISLEY-MCNEES & ASSOCIATES, INC.
Drafting Technician, 1992-1994

EXPERIENCE

Site and building power distribution systems, standby emergency power systems, lighting and lighting control systems, panelboard schedules, load tabulations and construction details.

***PROFESSIONAL
AFFILIATIONS***

IES - Illuminating Engineering Society of North America

Project Experience

Assisted Living Projects

Hood-McNees, Inc
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The Springs at Missoula, Missoula, Montana 2005

Mechanical, Electrical & Plumbing design for a three-story, wood frame structure housing totaling 142 units with a mix of independent, assisted living & memory care.

Walnut Grove Apartments, Vancouver, Washington 2005

Plumbing and Mechanical design for a 65-unit 3-story senior living apartment building with community room.

Pioneer Village, Jacksonville, Oregon 2004

Plumbing design for a 73-unit 3-story Independent Living building and a 31-unit 2-story Assisted Living building with commercial kitchen.

Mountain West Senior Housing, Salem, Oregon

Plumbing design for Assisted Living Facilities in multiple locations:

- Olympic Place, Arlington Washington, 106 Units. 2003
- Silver Creek, South Hill Washington, 132 Units. 2004
- Cedar Ridge, Bonney Lake Washington, 108 Units. 2004
- Park Vista, Port Orchard Washington, 134 Units. 2004

Vintage at Bend, Bend, Oregon 2003

Plumbing design for 106 unit senior living facility.

Catapla Shade Apartments, Medford, Oregon 2003

Mechanical, Electrical & Plumbing design for a 20,000 SF apartment building with 22 housing units for paraplegic and quadriplegic individuals and common use community area.

Mountain View Adult Care Center, Gresham, Oregon 2002

Electrical design for expansion and remodel of 21 residents, common and utility areas. Design included new electrical systems (lighting, power, electrical distribution), electrical service and standby power generator.

Auburn Senior Community Assisted Living, Auburn, Washington 2002

Electrical design for 2-Story 80 unit Assisted Living Facility with common & utility areas and Single story 18 resident Alzheimer's Care Facility.

Burnside Station Apartments, Portland, Oregon 2002

Electrical design for a 20,000 SF apartment building with 22 housing units for paraplegic and quadriplegic individuals and common use community area.

The Springs at Clackamas Woods, Clackamas, Oregon 2000

Mechanical, Electrical & Plumbing design for a three-story, wood frame structure housing 129 residential care units and 12 assisted living units.

Clayton Meadows Senior Apartments, Albany, Oregon 2000

Mechanical, Electrical & Plumbing design assistance for a 48,530 SF two-story, senior housing facility, containing 50 units.



Catalpa Shade Apartments Medford, Oregon



Architect: Andrews Architects, Inc.
Portland, Oregon

Completed: 2004

Mechanical, Electrical & Plumbing design
for a new 20,000 SF apartment building
with 22 housing units for paraplegic and
quadriplegic individuals and common use
community area.





Hood-McNees, Inc.

Electrical/ Mechanical Engineers

The Springs at Missoula Missoula, Montana



Architect: RAR Architecture, Inc.
Portland, Oregon

Completed: 2005

Mechanical, Electrical & Plumbing design
for new Assisted Living Facility with
74 Independent Living Units,
34 Assisted Living Units, and
34 Memory Care Units.



Project Experience

Housing Projects

Hood-McNees, Inc
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Hunter's Ridge, Sherwood, Oregon 2004

Plumbing and Mechanical design for two mixed use building with underground parking, retail on the ground level and 2 floors of housing above.

100th & Glisan Apartments, Portland, Oregon 2004

Plumbing design for a 42-unit apartment building with covered parking for part of the ground level and 3 floors of housing above.

Maybee Residence, Portland, Oregon 2004

Mechanical, Electrical & Plumbing design for historic district residence which restored the 3rd floor lost in a fire in the 1960's and preserving the exterior but still updating the interior spaces to modern sizes and amenities.

Walnut Grove Apartments, Vancouver, Washington 2004

Plumbing and Mechanical design for a 65-unit 3-story senior living apartment building with community room.

Clara Vista Townhomes, Portland, Oregon 2004

Plumbing, Mechanical and Electrical design for site with 6 new apartment buildings of 2 or 3-story construction.

Pioneer Village, Jacksonville, Oregon 2004

Plumbing design for a 73-unit 3-story Independent Living building and a 31-unit 2-story Assisted Living building with commercial kitchen.

The Headwaters at Tryon Creek Apartments, Portland, Oregon 2004

Plumbing design for 2 buildings each with 64-units with 4-stories of housing over covered parking.

1620 Broadway Condominiums, Portland, Oregon 2004

Plumbing design for a $\frac{3}{4}$ city block mixed use project with Grocery store on the ground floor, 4 stories of luxury condominiums above and three levels of parking below.

Mountain West Senior Housing, Salem, Oregon

Plumbing design for Assisted Living Facilities in multiple locations:

- Olympic Place, Arlington Washington, 106 Units. 2003
- Silver Creek, South Hill Washington, 132 Units. 2004
- Cedar Ridge, Bonney Lake Washington, 108 Units. 2004
- Park Vista, Port Orchard Washington, 134 Units. 2004

The Springs at Missoula, Missoula, Montana 2004

Mechanical, Electrical & Plumbing design for a three-story, wood frame structure housing totaling 142 units with a mix of independent, assisted living & memory care.

Project Experience
Housing Projects (continued)

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Vintage at Bend, Bend, Oregon 2003
Plumbing design for 106 unit senior living facility.

Phoenix Inn, Salem, Oregon 2004
Plumbing design for four story hotel.

ASI/Jackson County Supportive Housing, Medford, Oregon 2003
Mechanical, Electrical & Plumbing design for a 20,000 SF apartment building with 22 housing units for paraplegic and quadriplegic individuals and common use community area.

Promenade Condominiums, Phase II, Washington County, Oregon 2002
Mechanical and Plumbing design for condominiums added to an existing complex. The addition consisted of two buildings, one with 3 floors containing 23 units, and the other with 4 floors containing 39 units.

Main Street at Bethany Village, Buildings D & J, Washington County, Oregon 2002
Plumbing design for new two story building containing 26 dwelling units located over retail tenant improvement spaces. Building J is a mirror image of Building D.

Casa Lomas Farm Worker Housing, The Dalles, Oregon 2002
Design assistance for a four building apartment complex, including fire protection performance specification, heating equipment selection, energy code forms for prescriptive path, basic lighting and power, and construction phase assistance.

The Maples 2, Hillsboro, Oregon 2002
Mechanical, Electrical & Plumbing design for a new 16,000 SF, two-story apartment building with 21 units.

Armory Student Housing, Corvallis, Oregon 2002
Mechanical, Electrical & Plumbing design assistance for a new building with 84 units on four floors over an open parking garage.

The Springs at Clackamas Woods, Clackamas, Oregon 2000
Mechanical, Electrical & Plumbing design for a three-story, wood frame structure housing 129 residential care units and 12 assisted living units.

Sylvan Sunset Apartments, Beaverton, Oregon 2000
Mechanical, Electrical & Plumbing design assistance for rehabilitating three existing apartment buildings and adding four new building to the complex. HMI later provided mechanical design services for Building A, a new building consisted of three stories of housing over a parking garage and with a clubhouse section on one end.

Clayton Meadows Senior Apartments, Albany, Oregon 2000
Mechanical, Electrical & Plumbing design assistance for a 48,530 SF two-story, senior housing facility, containing 50 units.



Casa Lomas The Dalles, Oregon

New Farm Worker Housing



Architect: RAR Architects, Inc.
Portland, Oregon

Completed: 2002

Design assistance for a four building apartment complex, including fire protection performance specification, heating equipment selection, energy code forms for prescriptive path, basic lighting and power, and construction phase assistance.



Project Experience
Government Projects

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Oregon Zoo: Family Farm Exhibit, Portland, Oregon 2004

Mechanical, Electrical & Plumbing design to create an exhibit for typical animals found on the traditional family farm. Project included animal holding areas and areas for people interaction with exhibit animals.

Oregon Zoo: Eagle-Salmon Exhibit, Portland, Oregon 2004

Mechanical, Electrical & Plumbing design to expand the Cascade Exhibit to include a new display salmon tank with viewing glass side and open to the new eagle aviary. Design included interactive pool for child's play with water treatment for people and salmon.

Tillamook 911, Tillamook Oregon 2004

Mechanical, Electrical & Plumbing design for 3,800 SF addition and 1,400 SF remodel to an existing emergency communications center. Project included full emergency power system to support local emergency command center.

Multnomah County Receiving Center - MDT Building, Portland, Oregon 2003

Mechanical and Plumbing design for remodel of 23,700 SF, 3 story building to adapt for new program needs. Design included new mechanical systems and controls to be included in campus wide energy management system.

City of Tualatin: Boones Ferry Road Improvements Phase 2, Tualatin, Oregon 2003

A downtown enhancement project for the City for which we provided design services for roadway illumination (street lighting) and relocating to underground of Power, Telephone and Cable TV utilities.

County House Reconstruction, Ft. Vancouver National Historic Site,
Vancouver, Washington 2003

Mechanical design for heating of new exhibit space built in the original style of construction as a historic recreation.

Multnomah County Receiving Center – Residence Building, Portland, Oregon 2002

Mechanical, Electrical & Plumbing design for new 10,800 SF building to house children taken in by the County due to family problems. The building included 16 dorm rooms, kitchen & dining facilities, offices, and supervised play areas. Design included access security systems, lighting, data, and telephone systems.

Multnomah County Receiving Center - Service Building, Portland, Oregon 2002

Mechanical, Electrical & Plumbing design for remodel of 14,800 SF, 2 story building to adapt for new program needs. Design included new mechanical systems, lighting, data, telephone for office and observed family meeting rooms.

Project Experience

Government Projects (continued)

Hood-McNees, Inc
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State of Oregon Human Resources Building, Albany Oregon 2002

Mechanical, Electrical & Plumbing design for remodel of 45,800 SF leased space to update building for State's current program needs with new mechanical system, lighting, space allocation, and finishes. The mechanical system included an energy conservation measure (heat wheel) to permit increased outside air to be introduced into the building for better indoor air quality without the energy cost penalty.

Diamond Lake Campground Showers, Umpqua National Forest, Oregon 2002

Mechanical, Electrical & Plumbing design for new 'M-Loop' shower facility, including solar water heating for showers and in-floor radiant heat, as well as winter freeze protection.

TRIMET: Powell Lift Facility, Portland, Oregon 2002

Electrical systems design for new 3100 sq ft support facility for LIFT program. Included site lighting design for bus lot expansion. Design Build project executed with TICE Electric Company.

TRIMET: Powell Facility Lighting Study, Portland, Oregon 2002

Detailed study of bus lot lighting with particular attention to reference standards, TRIMET standards, safety, lighting quality, maintenance and energy saving opportunities, and obtrusive light considerations (light spill into adjacent neighborhoods). Study involved field surveys, public meeting with neighbors, analysis, recommendations and cost estimates.

Rim Village Renovation, Crater Lake National Park, Oregon 2001

Mechanical design for renovation of historic buildings (Comfort Station, Community Building, Kiser Studio, Sinnott Memorial Overlook) at Lake Rim for continued public use.

Oregon Zoo, Portland, Oregon

Amazon Flooded Forest Exhibit, 2001

Plumbing and Electrical design services to convert an existing 2,200 SF Primate Exhibit into an Amazon Forest exhibit. Included plumbing system design to support a variety of animal species (fish, turtle, reptile, snake, rodents and primates.)

Penguiarium, Portland, Oregon 1999**

Mechanical design of new system to provide better humidity control and lower energy usage while reducing equipment and maintenance needs.

Lorikett Exhibit, Portland, Oregon 1999**

Heating, Ventilation and Plumbing design for a new, small structure used to house birds and supplies for the new exhibit.

East Bear Grotto Remodel (Educational), Portland, Oregon 1997**

Mechanical design of system for temporary housing of small animals used in interactive sessions with school age children.

Elephant Building Remodel, Portland, Oregon 1997**

Mechanical design of new system for building humidity control (keep floor dry) for improved animal health (foot trouble).

**Mr. Hood's personal experience while working at previous firms.

Eagle Canyon Exhibit Oregon Zoo, Portland, Oregon



Architect: Koch Landscape Architecture
Portland, Oregon

Completed: 2004

Mechanical, Electrical and Plumbing design to expand the Cascade Exhibit to include a new display salmon tank open to the new eagle aviary with viewing glass side.

Design included water falls and interactive pool for child's play with water treatment for people and salmon.



Amazon Flooded Forest Exhibit Oregon Zoo, Portland, Oregon



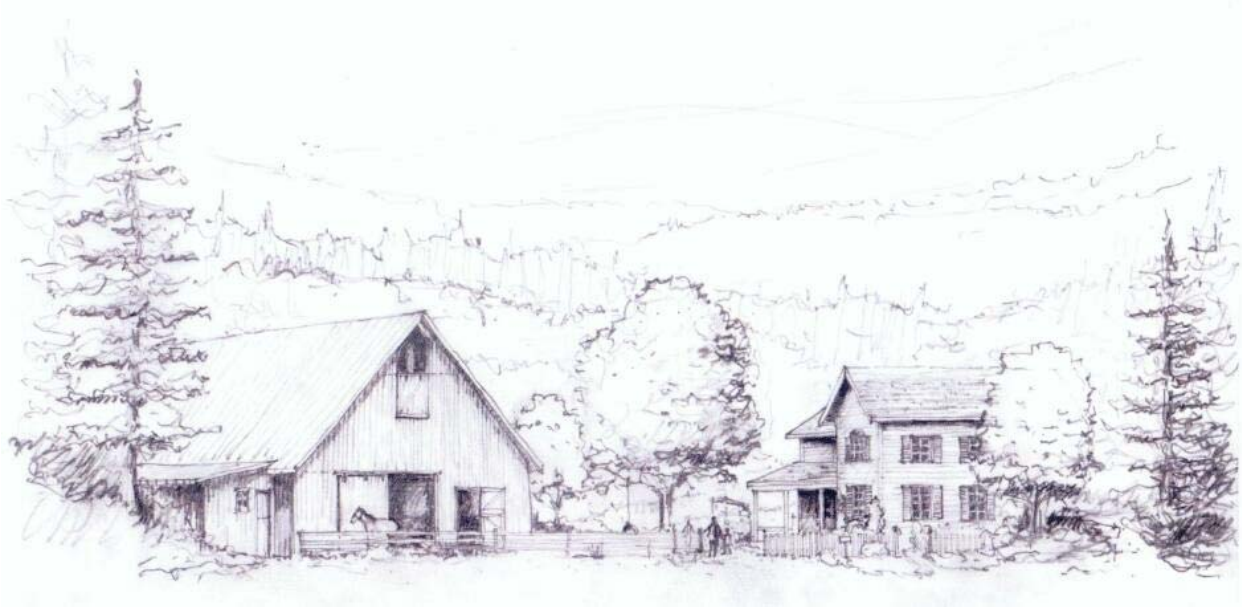
Completed: 2001

Plumbing and Electrical design services to convert an existing 2,200 SF Primate Exhibit into an Amazon Forest exhibit.

Included plumbing system design to support a variety of animal species (fish, turtle, reptile, snake, rodents and primates.)



Trillium Creek Family Farm Exhibit Oregon Zoo, Portland, Oregon



Architect: Ankrom Moisan Associated Architects
Portland, Oregon

Completed: 2004

Mechanical, Electrical & Plumbing design to create an exhibit for typical animals found on the traditional family farm. Project included animal holding areas and areas for people interaction with exhibit animals.





Multnomah County Gateway Children's Center Portland, Oregon



Service Building

Architect: Carleton Hart Architecture, P.C.
Portland, Oregon

Completed: 2002 Service & Residence Bldgs.
2003 MDT Building

Service Building:

Mechanical, Electrical & Plumbing design for remodel of 14,800 SF, 2 story building to adapt for new program needs. Design included new mechanical systems, lighting, data, telephone for office and observed family meeting rooms.

Residence Building:

Mechanical, Electrical & Plumbing design for new 10,800 SF building to house children taken in by the County due to family problems. The building included 16 dorm rooms, kitchen & dining facilities, offices, and supervised play areas. Design included access security systems, lighting, data, and telephone systems.

MDT Building:

Mechanical & Plumbing design for remodel of 23,700 SF, 3 story building. Design included new mechanical systems and controls to be included in campus wide energy management system.



Residence Building

Tri-Met Powell Lift Facility Portland, Oregon



Architect: CIDA
Portland, Oregon

Contractor: Tice Electric Company
Portland, Oregon

Completed: 2003

Tri-Met Powell lift facility was a new building and parking lot, built adjacent to the existing Tri-Met Bus maintenance facility. Working closely with the electrical contractor and Tri-Met facility personal, a scope of work was developed to achieve optimal performance of the facility along with energy savings and concerns for the surrounding residential neighborhood.

Our involvement in the project was:

1. Time clock control of parking lot lights to reduce the impact on surrounding residential neighbors during non-peak use of facility.
2. Achieving the required Tri-Met light levels around vehicles at the facility.
3. Using Occupancy sensors and Bi-level lighting of interior lighting to achieve optimum energy efficiency.
4. Design of the electrical system to allow operation from a backup generator.



Tualatin Hills Nature Park Visitor's Center and Gateway Tualatin, Oregon



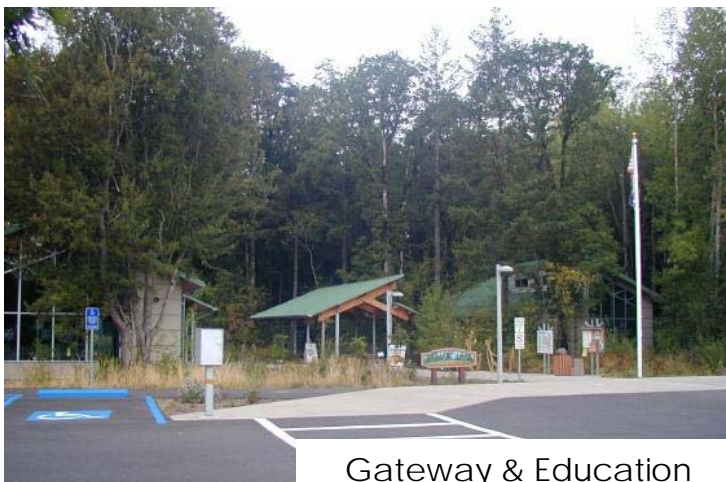
Visitor's Center

Architect: SRG Partnership
Portland, Oregon

Completed: 1999 Visitors Center & Trails
2001 Gateway & Education Bldg.

Visitors Center and Site:

Electrical design for 5,000 SF, Earth Smart building to serve program needs. Design included site electrical services, parking lot lighting, interior lighting and specialty lighting, data, and telephone. One challenge met was accommodation of high voltage overhead lines in parking lot.



Gateway & Education

Education Building:

Mechanical, Electrical & Plumbing design for new 2,400 SF restroom and classroom building for education mission of the center.

Gateway:

Electrical design for illumination of entry structure welcoming guests to the center and trailhead.

Project Experience

Hospitality Industry

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Sunset Athletic Club, Washington County Oregon 2002-2005

Mechanical, Electrical & Plumbing design for multi-phased expansion of existing athletic club. Phase 1 added exercise rooms and elevator plus replaced the tennis building lighting with new energy efficient fixtures. Phase 2 added basketball courts, rock climbing wall and more tennis courts. Phase 3 will add indoor swimming pools.

Hooters™ Restaurant, Portland, Oregon 2004

Mechanical, Electrical & Plumbing design for remodel of existing 7,300 SF building to house chain restaurant. Project was completed on an accelerated schedule for quick opening with a tight budget.

Best Western Peppertree Motel Addition, Auburn, Washington 2004

Mechanical and Plumbing design for 100 unit addition to an existing 4-story motel building.

Kagyu Changchub Chuling Retreat Facility, Goldendale, Washington 2004

Mechanical, Electrical & Plumbing design for new 2,300 SF Kitchen/Dining Building on newly developed 240 acre site.

Eagle Landing Club House, Clackamas, Oregon 2004

Mechanical design and Plumbing & Electrical design assistance for new 7,400 SF golf course clubhouse with Pro Shop, meeting space, offices, and future commercial kitchen.

Restaurant at Campbell Basin, Crystal Mountain, Washington 2004

Mechanical, Electrical & Plumbing design for new 10,600 SF restaurant located at the end of a ski run on the east side of Mt. Rainer.

Hilton Garden Inn, Kennewick, Washington 2004

Plumbing design for 3 story hotel with 122 units and commercial kitchen.

Little Creek Casino Hotel, Squaxin Island Tribe, Shelton, Washington 2004

Plumbing design for 5 story hotel & restaurant addition to casino Facility.

VIP's Industries, Inc., The Salem Hotel, Salem, Oregon 2004

Plumbing design for 5 story hotel & restaurant at a new convention facility.

Project Experience

Hospitality Industry (continued)

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North Harbour Retail Center, Portland Oregon – *Tenant Improvements*

Pizza Mia 2004

Plumbing design for 2800 SF Pizza Restaurant with full kitchen to support both dine-in and take-out customers.

Waddles 2003

Plumbing design for the 3570 SF new location of an long standing Portland restaurant. Project included a full kitchen and bar.

Sunset Commercial Center, Corvallis Oregon – *Tenant Improvements*

Blue Sky Restaurant 2002

Mechanical, Electrical & Plumbing design for 2500 SF Chinese Restaurant with full kitchen to support both dine-in and take-out customers.

Creekside Coffee 2000

Plumbing design for 1250 SF coffee shop.

Little Caesar's Pizza 1999**

Mechanical & Plumbing design for 1400 SF Pizza Restaurant with kitchen support both dine-in and take-out customers.

Barbur Shops, Portland Oregon – *Tenant Improvements*

La Costita III 2004

Mechanical, Electrical & Plumbing design for 3800 SF Mexican Restaurant. Project included a full kitchen and bar.

Jubitz Truck Stop, Portland, Oregon 2000**

Mechanical design for a 45,000 SF addition to the current building. The project consisted of a refurbished lounge, an expanded restaurant with banquet facilities, 6 floors of new hotel rooms and a retail center. The retail center included an 80 seat movie theater, a convenience store and laundry facilities.

**Mr. Hood's personal experience while working at previous firms.



Campbell Basin Lodge Crystal Mountain Ski Resort



Architect: D. Michael Danielsen
Evergreen Architecture Corp.
Salem, Oregon

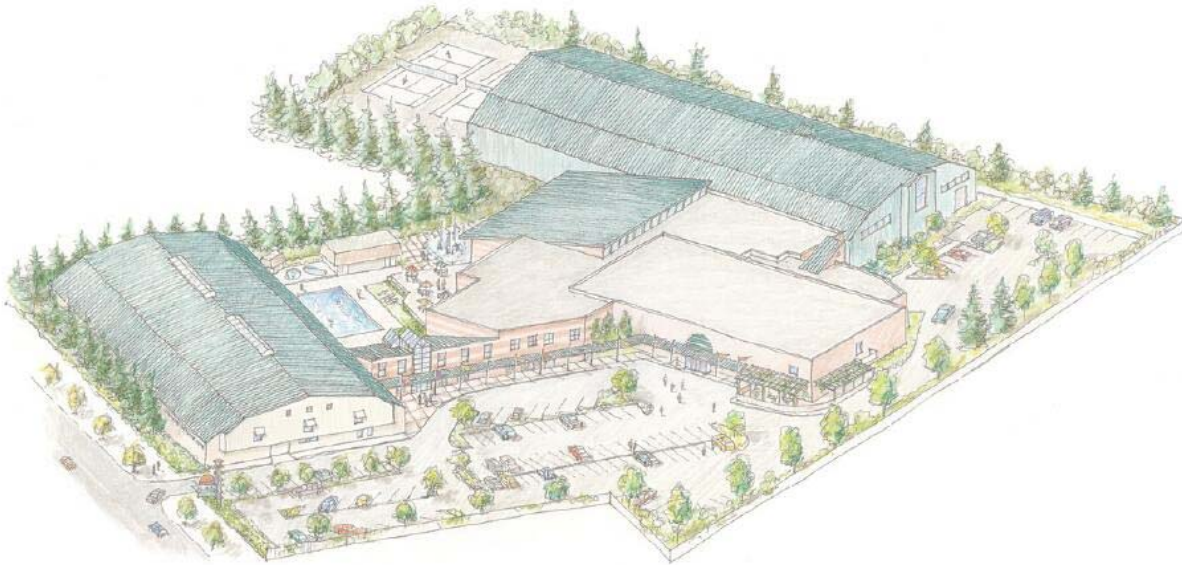
Mechanical, Electrical and
Plumbing design for
new 12,000 SF Restaurant

Completed: 2004

6,200 ft. Elevation in the
Baker-Snoqualmie National Forest
of Central Washington State



Sunset Athletic Club Portland, Oregon



Architect: Salauddin Khan Architects
Portland, Oregon

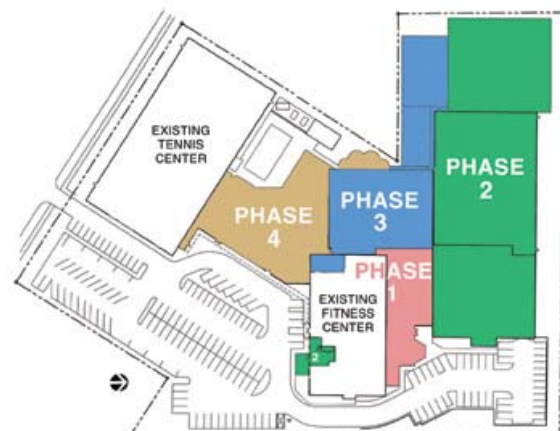
Mechanical, Electrical & Plumbing design for a multi-phase expansion

Phase 1 (Completed 2003): Spinning/Exercise Room, Large Group Exercise Room, Greatly Expanded Fit Center, More Cardio Equipment, Stretching Area, Increased Parking, Elevator, Leased Physical Therapy Facility.

Phase 2 (Completed 2004): Three Indoor Tennis Courts, Two Outdoor Tennis Courts, Gymnasium for Basketball and Volleyball, Rock Climbing Wall, Indoor Running Track, Expanded Kids Korner, Additional Parking.

Phase 3 (Beginning 2005): Indoor Aquatic Center including Lap Pool, Exercise Pool, Therapy Pool & Jacuzzi, Sauna and Steam Room, Wet Classroom, Family Changing Rooms, Expanded Men's and Women's Locker Rooms, Massage Rooms, Junior Activity Classroom, Sport and Grass Play Area.

Phase 4: Two Group Exercise Rooms, Two Squash/Racquetball Courts, Conference Room, Large Meeting Room, Main Lobby, Pro Shop, Deli, Pool Terrace, Water Play Area.



Project Experience
Educational Buildings

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St Mary's Academy, Portland Oregon 2004

Mechanical and Plumbing design for Classroom Unit and Commons Addition totaling 16,000 SF. The added space was located on top of the existing multi-story school building requiring extra efforts to integrate the new construction with present services and structure.

Centennial Elementary School Gymnasium, Scio Oregon 2003

Mechanical, Electrical & Plumbing design for new 17,600 SF gymnasium and cafeteria building with shower & toilet rooms, space for 3 future classrooms and rough-in for future kitchen.

Mt. Hood Headstart, Portland Oregon 2003

Mechanical and Plumbing design to convert a 2,400 square foot warehouse space to accommodate a "Headstart" program, including new HVAC equipment and plumbing facilities.

Cipriano Ferrel Education Center, Woodburn Oregon 2003

Mechanical, Electrical & Plumbing design for new 8500 SF building to support migrant workers with a "Headstart" program and tutoring center with computer lab, and classrooms.

St Mary's Academy, Portland Oregon 2002

Mechanical and Plumbing design for remodel of Fine Arts Classroom (2400 SF), Main Lobby (3800 SF), and new President's Office Suite (850 SF). During the summer construction opportunity other parts of the building's mechanical systems were upgraded or improved such as the central building controls (master time clock, boiler alarms, & after hours time clock overrides), crawl space ventilation, central supply & exhaust fan repairs.

St Mary's Academy, Portland Oregon 2001

Mechanical design assistance to select system types for a Design/Build Contractor to remodel of a 700 seat theater and athletic facilities (weight room, lockers & team rooms.)

St. Andrews Nativity School, Portland Oregon 2001

Mechanical, Electrical & Plumbing design for elevator installation and new science rooms. A new electrical service was designed to support the needs of the elevator.

OCDL Ontario HVAC Upgrade, Ontario Oregon 2001

Mechanical and Electrical design for upgrade of fire alarms, heating and ventilation systems in classrooms and gymnasium. The existing central steam boiler was removed and 26,000 SF of the building provided with roof top packaged HVAC equipment to provide both heating and cooling.



Cipriano Ferrel Education Center Woodburn, Oregon



Architect: Andrews Architects, Inc.
Portland, Oregon

Completed: 2003

Mechanical, Electrical & Plumbing design
for new 8,500 SF building with tutoring
center, computer lab, and "Headstart"
program for migrant workers.





St. Mary's Academy Portland, Oregon



Renderings: © BOORA Architects, Inc., - Used by permission



Architect: BOORA Architects, Inc.
Portland, Oregon

Completed: 2005



Mechanical and Plumbing design for a rooftop addition to the south end of a downtown women's high school.

Project gives the school much needed instructional and administrative space. The project is composed of five new classrooms, a student commons, a boardroom, offices, and support spaces. The addition blends with the existing brick façade and balances out an earlier addition on the north end of the third floor.

1923 SE STARK STREET, PORTLAND, OREGON 97214 PHONE (503) 231-7825 FAX (503) 231-8309

Project Experience
Commercial/Retail Buildings

Hood-McNees, Inc
1923 SE Stark Street
Portland, Oregon 97214
(503) 231-7825

Restaurant at Campbell Basin, Crystal Mountain, Washington 2004
Mechanical, Electrical & Plumbing design for new 10,600 SF restaurant located at the end of a ski run on the east side of Mt. Rainer.

Sherwin-Williams Paints, Vancouver Washington 2004
Mechanical, Electrical & Plumbing design for new 4800 SF retail building for local owner under national franchise standards.

Aeroterm Air Cargo Facility Expansion, Portland, Oregon 2002
Mechanical design for tenant improvement including offices (4100 SF), package sorting and truck loading (35,000 SF). Design included exhaust systems for vehicular ventilation.

Outside In, Portland, Oregon 2002
Mechanical design for new 27,000 SF, 5 story, mixed use building designed to serve the needs of homeless youth. Building includes 2 floors of housing, 2 floors office areas, medical clinic, food service, and training facilities.

Bi-Mart Plaza, Coos Bay, Oregon 2001
Mechanical design assistance for new 42,300 SF retail building.

Beaverton Bi-Mart, Beaverton Oregon 2001
Plumbing design and Mechanical design assistance for renovation of 42,300 SF retail building.

Cannery Mall, Corvallis, Oregon 2000
Mechanical, Electrical & Plumbing design for total renovation of building shell for 56,000 SF, 3 story, mixed use (retail/office) building. Ground and basement levels housed retail spaces with office use on upper floor.

Kaiser Commercial Building, Kaiser, Oregon 2000
Mechanical design for a new 13,500 SF commercial strip building shell. Services included plumbing rough-in for future restrooms, and location, selection and placement of rooftop HVAC units.

Ross (Dress for Less) Garden Valley Center, Roseburg, Oregon 2000
Mechanical, Electrical & Plumbing design for remodeled 35,000 SF retail building.

Jubitz Truck Stop, Portland, Oregon 2000**
Mechanical design for a 45,000 SF addition to the current building. The project consisted of a refurbished lounge, an expanded restaurant with banquet facilities, 6 floors of new hotel rooms and a retail center. The retail center included an 80 seat movie theater, a convenience store and laundry facilities.

**Mr. Hood's personal experience while working at previous firms.



Cannery Mall Corvallis, Oregon

Renovated Mixed Use Development



Architect: RAR Architecture, Inc.
Portland, Oregon

Completed: 2000 Building Shell
2002 3 Tenant
Improvements

Mechanical, Electrical & Plumbing design for total renovation of building shell for 56,000 SF, 3 story, mixed use (retail/office) building. Ground and basement levels housed retail spaces with office use on upper floor.

Mechanical, Electrical & Plumbing Design for 3 Individual Tenant Improvements



Outside In Portland, Oregon



Architect: Clark / Kjos Architects
Portland, Oregon

Contractor: Roth Heating & Cooling
Canby, Oregon

Completed: 2002

Mechanical design for new 27,000 SF, 5 story mixed use building designed to serve the needs of homeless youth. Building includes 2 floors of housing, 3 floors office areas, medical clinic, food service, and training facilities.

Project Experience

Office Environments

Hood-McNees, Inc
1923 SE Stark Street
Portland, Oregon 97214
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Renaissance Development, Inc., Corporate Office, Lake Oswego Oregon 2004
Mechanical design for new 10,000 SF, 3 story building for Owner/Developer.

Office for Dr. John Pham, Portland Oregon 2003
Mechanical, Electrical & Plumbing design for total renovation of 2300 SF building for Doctor's Office with exam rooms, treatment rooms and laboratory.

Multnomah County Receiving Center - Service Building, Portland, Oregon 2002
Mechanical, Electrical & Plumbing design for remodel of 14,800 SF, 2 story building to adapt for new program needs. Design included new mechanical systems, lighting, data, telephone for office and observed family meeting rooms.

Multnomah County Receiving Center - MDT Building, Portland, Oregon 2003
Mechanical & Plumbing design for remodel of 23,700 SF, 3 story building to adapt for new program needs. Design included new mechanical systems and controls to be included in campus wide energy management system.

State of Oregon Human Resources Building, Albany, Oregon 2002
Mechanical, Electrical & Plumbing design for remodel of 45,800 SF leased space to update building for State's current program needs with new mechanical system, lighting, space allocation, and finishes. The mechanical system included an energy conservation measure (heat wheel) to permit increased outside air to be introduced into the building for better indoor air quality without the energy cost penalty.

Martin Office Building, Tigard, Oregon 2002
Mechanical design for new 17,000 SF, 2 story building shell for future tenant improvement.

Outside In, Portland, Oregon 2002
Mechanical design for new 27,000 SF, 5 story, mixed use building designed to serve the needs of homeless youth. Building includes 2 floors of housing, 2 floors office areas, medical clinic, food service, and training facilities.

Cannery Mall, Corvallis, Oregon 2000
Mechanical, Electrical & Plumbing design for total renovation of building shell for 56,000 SF, 3 story, mixed use (retail/office) building. Ground and basement levels housed retail spaces with office use on upper floor.

Project Experience
Industrial Buildings

Hood-McNees, Inc
1923 SE Stark Street
Portland, Oregon 97214
(503) 231-7825

Peri Formwork Systems, Inc., Woodland, Washington 2002

Plumbing design for concrete form manufacturer's new facility. The building contained 23,800 SF manufacturing area and 11,600 SF office.

Aeroterm Air Cargo Facility Expansion, Portland, Oregon 2002

Mechanical design for tenant improvement including offices (4100 SF), package sorting and truck loading (35,000 SF). Design included exhaust systems for vehicular ventilation.

Columbia Colstor, Inc., Woodland, Washington 2001

Mechanical and Electrical design for new 31,300 fish processing addition to the existing plant.

Columbia Colstor, Inc., Quincy, Washington 2001

Design study for correction of existing problems occurring in under floor freeze protection system and machine room ventilation.

Columbia Colstor, Inc., Othello, Washington 2000

Mechanical and Plumbing design for new cold storage warehouse. Project including 145,590 SF of freezer space, 18,315 SF truck dock, 18,045 SF of rail dock, 3,200 SF of office space, a 4,780 SF training center, and 2,400 SF of shop area.

Weyerhaeuser, Green Mountain Sawmill, Toutle, Washington 2000

Design study to correct mold and dust problems in their existing mill complex.

Chevron USA., Marine Terminal, Portland, Oregon 2000

Electrical and instrumentation planning and design assistance for installation of carbon bed fuel vapor recovery system.

Chevron USA., Willbridge Terminal, Portland, Oregon 1998-2001

Electrical and instrumentation design for replacement bulk fuel storage tanks (seven).

Chevron USA.Products Co, Willbridge Terminal, Portland, Oregon 2001

Electrical and instrumentation design assistance for VI solubilization (lube oil additive) project.