



**Io** Engineers<sup>INC</sup>

MECHANICAL | ELECTRICAL | PLUMBING | FIRE PROTECTION

3000 N. WICKHAM RD  
SUITE 10  
MELBOURNE, FL 32935

**P** 321 752 4949  
321 752 4948  
**F** 321 752 4947

[POETKER@IOENGINEERS.COM](mailto:POETKER@IOENGINEERS.COM)  
[WWW.IOENGINEERS.COM](http://WWW.IOENGINEERS.COM)

RETAIL & HOSPITALITY

## PROJECT EXPERIENCE

### Grand Hyatt Hotel and Convention Center Seattle, Washington



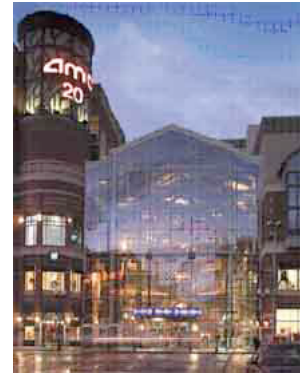
Mechanical engineering services for new 20-story, 440-room hotel located over an eight-story base structure in downtown Seattle. Base structure includes hotel support spaces such as fitness center, laundry, kitchens, restaurant, multi-media conference theater, ballrooms, meeting rooms, and multiple retail spaces for a total of 445,400 s.f. A parking structure of 380,000 s.f. is included with project. An exhibition hall is located directly above the parking structure and is provided with an enclosed pedestrian bridge over downtown streets connecting the facility with the Washington State Convention & Trade Center. Mechanical design included individual room two-pipe air conditioning units with electric heat, high-rise smoke control systems with stair and elevator shaft pressurization, HVAC, plumbing, automatic fire sprinklers, high-rise combination standpipes with electric driven fire pumps, life-safety electric generator, commercial kitchen plumbing and HVAC systems, and parking structure ventilation.



## PROJECT EXPERIENCE

### River Park Square Mall, Theater Complex and Parking Garage Spokane, Washington

Energy engineering services for investigation conducted on the economic feasibility of gas-fired radiant heating systems at U.S. Army military community in Goeppingen, Germany. Project included 1) development of theoretical models based from existing radiant heating system installations at Goeppingen, 2) comparison of actual system performance with theoretical models, 3) assessment of the operating problems and limitations of the system, and 4) development of guidelines and criteria to determine the feasibility of installing radiant heating in potential buildings.



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## PROJECT EXPERIENCE

### Mt. Roberts Aerial Tramway and Visitors Center Juneau, Alaska

Energy engineering services for investigation conducted on the economic feasibility of gas-fired radiant heating systems at U.S. Army military community in Goeppingen, Germany. Project included 1) development of theoretical models based from existing radiant heating system installations at Goeppingen, 2) comparison of actual system performance with theoretical models, 3) assessment of the operating problems and limitations of the system, and 4) development of guidelines and criteria to determine the feasibility of installing radiant heating in potential buildings.

## Retail & Hospitality



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## PROJECT EXPERIENCE

## Retail & Hospitality

### Northgate Mall – Renovation and Food Court Addition Seattle, Washington

Energy engineering services for investigation conducted on the economic feasibility of gas-fired radiant heating systems at U.S. Army military community in Goeppingen, Germany. Project included 1) development of theoretical models based from existing radiant heating system installations at Goeppingen, 2) comparison of actual system performance with theoretical models, 3) assessment of the operating problems and limitations of the system, and 4) development of guidelines and criteria to determine the feasibility of installing radiant heating in potential buildings.



## PROJECT EXPERIENCE

## Retail & Hospitality

### Bank of America – 1600 Eastlake Branch Seattle, Washington

Energy engineering services for investigation conducted on the economic feasibility of gas-fired radiant heating systems at U.S. Army military community in Goeppingen, Germany. Project included 1) development of theoretical models based from existing radiant heating system installations at Goeppingen, 2) comparison of actual system performance with theoretical models, 3) assessment of the operating problems and limitations of the system, and 4) development of guidelines and criteria to determine the feasibility of installing radiant heating in potential buildings.



### Bank of America – Prototype Branch Banks Various Locations, Washington, Oregon and Idaho

Energy engineering services for investigation conducted on the economic feasibility of gas-fired radiant heating systems at U.S. Army military community in Goeppingen, Germany. Project included 1) development of theoretical models based from existing radiant heating system installations at Goeppingen, 2) comparison of actual system performance with theoretical models, 3) assessment of the operating problems and limitations of the system, and 4) development of guidelines and criteria to determine the feasibility of installing radiant heating in potential buildings.



Before



After

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## PROJECT EXPERIENCE

## Retail & Hospitality

Macy's Downtown  
(formerly The Bon  
Marche) – 8th Floor  
Remodel  
Seattle, Washington

Energy engineering services for investigation conducted on the economic feasibility of gas-fired radiant heating systems at U.S. Army military community in Goeppingen, Germany. Project included 1) development of theoretical models based from existing radiant heating system installations at Goeppingen, 2) comparison of actual system performance with theoretical models, 3) assessment of the operating problems and limitations of the system, and 4) development of guidelines and criteria to determine the feasibility of installing radiant heating in potential buildings.

Lowe's (formerly Eagle  
Hardware) – New  
Stores  
Various Locations, United  
States

Energy engineering services for investigation conducted on the economic feasibility of gas-fired radiant heating systems at U.S. Army military community in Goeppingen, Germany. Project included 1) development of theoretical models based from existing radiant heating system installations at Goeppingen, 2) comparison of actual system performance with theoretical models, 3) assessment of the operating problems and limitations of the system, and 4) development of guidelines and criteria to determine the feasibility of installing radiant heating in potential buildings.

Loehmann's –  
Downtown Seattle  
Retail Space  
Seattle, Washington

Energy engineering services for investigation conducted on the economic feasibility of gas-fired radiant heating systems at U.S. Army military community in Goeppingen, Germany. Project included 1) development of theoretical models based from existing radiant heating system installations at Goeppingen, 2) comparison of actual system performance with theoretical models, 3) assessment of the operating problems and limitations of the system, and 4) development of guidelines and criteria to determine the feasibility of installing radiant heating in potential buildings.