



SEED Awarded

Warner Creek Correctional Facility

LAKEVIEW, OREGON

Services

MEP Engineering
Sustainable Design

FAST FACTS

Architect

Group Mackenzie

General Contractor

Hoffman Construction Company

Completion

September 2005

Building Size

115,350 sf

Project Cost

\$27 million

Award

State Energy Efficiency Design Award (SEED) / Oregon Department of Energy

Contact

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The Warner Creek Correctional Facility resides in the high desert of southeast Oregon. Interface provided design services for seven buildings: the administration building, central services (boiler plant, warehouse and intake), health and education, the main prison, a multi-purpose, workshop, a communication building, and a Native American sweat lodge.

Because the facility falls under the State Energy Efficient Design (SEED) program requirements, Interface was required to design systems for the building that used 20 percent less than what the Oregon Energy Code allows. A key feature of this design was to take advantage of the geothermal resources that are present in

the Lakeview area. The resource available to the jail was located about 1.5 miles away. Water at 210°F was routed through insulated piping to the prison site. Because the flow of water was limited, Interface needed to use some creative engineering in order to maximize the benefit. Conventional heating systems are designed with water flows that use a 20°F to 40°F differential. Interface designed a system that used 125°F differential, saving energy and initial costs.

Due to the potential savings, Interface designed the system to provide the geothermal heating in as many places as possible. The heat source can provide service to space heating, domestic hot water, winter humidification, and laundry dryer preheat.



The correctional facility uses water from a 210°F geothermal heat source and, flowing through insulated pipes, arrives at the site at 200°F.