

Deadwood City Limits



The Historic Homestake Gold Mine in Lead, South Dakota formerly processed the “fines” from the milling process by extracting the last remaining bits of gold at the Slime Plant located in Deadwood. This facility has been remediated as part of Homestake’s reclamation efforts and will soon be utilized as an entertainment complex, changing the face of and function of Deadwood.

The facility will consist of an Entertainment Area including Casinos, Theaters, Restaurants, Kitchens, Dance Floor, and Bar/Food Service Centers. The entertainment area will be two-story with balconies on the second floor, have a rustic/industrial finish/theme and open ceilings with exposed Mechanical and Electrical equipment. In addition, the project will include a three-story 100 room hotel and a two-level 266 stall parking garage.

Project Data

Location

Deadwood, South Dakota

Building Type

Hotel/Casino
Historic Renovation

Building Area

75,000 square feet
(Entertainment Space)
100 Room Hotel
2 Level Parking Garage

Mechanical Systems / Features

4,500 MBH Boiler Plant
500 Ton Chiller Plant
PTAC (Hotel)

Electrical Systems / Features

Two Main Electrical Services
Two 1000 KW Generators
Interior/Exterior Lighting
Voice Evac Fire Alarm
Security/Communication

Completion Date

Spring, 2005

Architect

Lund Associates, Ltd.
www.lundltd.com

Overview

Detailed design is scheduled to begin very soon on the renovation of 75,000 SF entertainment space. A lower level will be developed by excavating underneath the existing floor. The existing electrical/mechanical systems will be removed from the facility and replaced.

Mechanical Engineering

Cooling needs for the large “dancehall” and entertainment complex will be met with a 500 ton dual compressor centrifugal chiller. Heating needs will be met with three 1500 MBH modular boilers producing heating water for circulation throughout the facilities. High efficiency, direct vent water heaters will serve the 140°F domestic water needs of the kitchens located on three levels of the building. Hotel rooms will use packaged terminal air conditioning systems and separate domestic water heating systems. The facilities will be served by a wet sprinkler system installed in accordance with NFPA 13.

Electrical Engineering

Two 3000A main switchboards will be provided: one to serve the Casino/Hotel/Parking Ramp loads; and one to serve the Theater/Showroom area loads. Two 1000 kW emergency diesel generators will be provided for backup power needs. The parking garage will require rerouting of utility owned electrical power to the facility.

The casino areas will have all the glitz of Las Vegas utilizing Industrial/Rustic Historical lighting fixtures in the entertainment area.