

Elkhorn Ridge Golf Course Clubhouse



The Elkhorn Ridge Golf Course is being developed as a nine hole public course along Interstate 90 near the Highway 85 exit. Skyline Engineering provided the mechanical and electrical design for the clubhouse and storage facility on the site. Project consists of a 2,770 SF single story, slab on grade clubhouse that includes dining, snack, starter, storage, offices and restrooms.

Project also includes a separate 2,464 SF open cart storage and 3,520 SF maintenance building (40 x 88) of post and frame construction. Maintenance Building houses one office, one restroom, and one non fire resistant secure storage room. Approximately one third of the maintenance building is insulated and heated. (2008 - \$1,050,000)

Project Data

Owner

Frawley Ranches, LLC

Location

Spearfish, South Dakota

Building Types

Clubhouse
Maintenance Building

Mechanical Systems / Features

High Efficiency Furnace/AC
Mixed HVAC Solutions

Electrical Systems / Features

Separate Underground Services
Site Lighting Extending Ranch Theme
Site Drive and Signage Lighting
Golf Cart Battery Maintenance
Systems Raceway Infrastructure

Completion Date

2008



Mechanical Engineering

Basic heating and air conditioning needs for these facilities are provided through two furnaces serving two zones within the clubhouse. Electric heat serves the maintenance building along with a PTAC for spot cooling of the irrigation control room.

Plumbing of the facility involved serving the light commercial snack kitchen, public and private rest rooms and accommodating the potable water and drainage needs of the maintenance building.

Electrical Engineering

The project site development included new electrical services for each facility. The two facilities each required a 400 amp 120/208v 3-phase electrical service fed from the same utility transformer.

The project lighting design focused on efficient fluorescent light fixtures with specialty fixtures only where needed for aesthetics. The site lighting packaged extends the existing Frawley Ranch site approach using spun concrete poles and Greenlee lifestyle dome fixtures. Unitary emergency and egress lighting was specified.

Systems design for the project included raceway/infrastructure for a future cable TV service, future point of sale system, future sound/paging system, and future data/telephone connectivity.

