



**South Dakota High School Athletic Association /  
Delta Dental Office**

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This Design-Build single-story 12,300 square foot facility located in Pierre, SD will house three separate tenant spaces with a shared conference room area.

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**Project Data**

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**Location**

Pierre, South Dakota

**Building Type**

Design Build  
Commercial / Industrial / Office

**Building Area**

12,300 square feet

**Mechanical Systems / Features**

Gas-Fired Furnaces with DX  
Cooling

**Electrical Systems / Features**

Direct/Indirect Recessed Light  
Fixtures  
Parking Lot / Exterior Lighting

**Completion Date**

Spring, 2004

**Architect**

Geiger Architecture  
[geiger@rushmore.com](mailto:geiger@rushmore.com)

**Contractor**

Design Draft Inc.  
[info@huntbrokenarrow.com](mailto:info@huntbrokenarrow.com)

**Mechanical Engineering**

Separate mechanical systems were provided for each tenant space and conference room. Mechanical systems include gas-fired furnaces with DX cooling, ductwork and piping distribution, air conditioning and condensate piping, natural gas distribution, domestic water distribution, and HVAC controls.

The condo-style building is zoned to facilitate separate environmental control of each tenant space taking into account the functionality and envelope loads of the space served. Plumbing design included the design of public restrooms along with individual tenant toilets, shower rooms, and break area.

**Electrical Engineering**

Electrical systems included interior and exterior lighting, office receptacle and telephone/data outlets and connections to mechanical heating, air conditioning, and plumbing equipment.

The electrical distribution system consisted of a pad mount transformer providing a 120/208V, 3PH, 4W secondary service for a 600 amp main fused disconnect switch and distribution panel.

Interior lighting design utilized energy efficient fluorescent lighting throughout. Special consideration was given to providing visual comfort in the offices, conference and corridor areas. Recessed parabolic troffers were specified for the office ceilings; cross baffle trims were provided on the corridor down lights; and ceiling suspended indirect luminaires were specified for the Lobby and Conference rooms. Exterior lighting design featured high pressure sodium lamps in the recessed canopy down lights and the parking lot pole mounted luminaries.

Plenum rated, category 5E data cabling was provided for all telephone/data outlet locations.