

Rushmore Plaza Civic Center Theater ADA Remodel



Accessibility renovations were made to the existing Civic Center's 1752 seat Theater. A remodel and expansion of the men's and women's restrooms in each first floor corridor were made to provide handicap access. In addition, some seating was revised immediately inside of each entrance to facilitate ADA access. An elevator, elevator equipment room, second floor restroom, and necessary ramps were also installed.

Project Data

Owner

City of Rapid City, Civic Center

Location

Rapid City, SD

Building Type

Theater

Building Area

1,752 seat

Mechanical Systems / Features

Hands Free Faucet and Flush Valves
Hi/Lo Drinking Fountains
Power Roof Ventilator
HW Radiant Heat Panel
Split System Air Conditioner System

Electrical Systems / Features

Panic Hardware
Lighting and Controls
Emergency Lighting
Occupancy Sensors
Voice Evacuation FA Notification

Construction Cost

\$850,000

Completion Date

2009



Mechanical Engineering

All new plumbing fixtures and carriers were provided for the remodeled and new restrooms and star dressing rooms. All faucets and flush valves installed are hands free sensor operated units except in star dressing rooms which are manual controls. New Hi/Lo drinking fountains were installed in main corridors.

HVAC system revisions and improvements consisted of connecting new exhaust ductwork and grilles in remodeled restrooms and in the star dressing rooms. Radiant ceiling panels located on an exterior wall were repositioned in the new ceiling grid and reconnected. The new second level restrooms are exhausted through a new power roof ventilator. Supplementary heat is provided through new hot water radiant heat panels. Cooling for the elevator equipment room was accomplished by providing a split system style air conditioner system. Ventilation in the theater and corridor areas was not modified.

Fire sprinkler piping was connected to existing system and heads were positioned in new ceiling grids.

Electrical Engineering

An egress door swinging outward from the electrical room was installed and equipped with panic hardware. Power connections were designed for the new elevator and revisions to support the other modifications.

New lighting or adjustments specified in the renovated restrooms, dressing rooms, new elevator room, elevator equipment room, new second floor restroom, star dressing rooms, end of seating standards, main corridor step lighting, and electrical rooms. Occupancy sensors were added to main corridor lighting controls for automatic shutdown of emergency fixtures and were also added in the remodeled restrooms. Emergency lighting for the theater augmented as required.

The Fire Alarm system was augmented to meet code requirements to include voice-evacuation notification throughout, fire sprinkler monitoring, elevator controls and monitoring, electrical controls/reconnections of mechanical equipment, and interface with other existing systems.

Sound and paging were also augmented to interface to existing systems.