SKYLINE
ENGINEERING LLC

Sturgis City Hall - Library

The project included renovation of the existing Sturgis City Hall and Fire Station to create new city offices and an expanded library facility. The adjacent existing library was completely demolished and a new two story addition was constructed to accommodate the new state of the art library space.

Due to continued use of the facilities, the project involved three phases of construction for completion, resulting in a 28,750 square foot project.

Project Data

Owner
City of Sturgis, South Dakota

Location
Sturgis, South Dakota

Building Type
Library, City Hall Offices

Building Area
28,750 square feet Total
(11,750 square feet – New Addition)
(17,000 square feet – Remodel)

Mechanical Systems / Features
Semi-Custom Rooftop Units
High Efficiency Boiler
Central Gas-fired Humidification
VAV Air Handling-Hydronic Reheat

Electrical Systems / Features
New Underground Service
Lightning Protection
Direct/Indirect Linear Lighting
Addressable Fire Alarm
Security Systems
Smart Center/Teleconferencing
Communications Wiring Connectivity

Construction Cost
$2,800,000

Completion Date
August 2006

Mechanical Engineering

A Variable Air Volume system incorporating hydronic reheat was provided. The VAV reheat boxes are supplied by two semi-custom rooftop air handling units – one serving the library, and one serving the City Hall. The existing air handling units and existing boiler serving the City Hall were demolished, and a new high-efficiency boiler was installed.

A complete redesign was provided for the facility including the associated ductwork, diffusers, controls, and accessories including a central gas-fired humidification system for the library. Also included were the associated piping distribution, air conditioning and condensate piping, natural gas distribution, and domestic water distribution.

Electrical Engineering

The new underground service included a 1200 amp main switch with distribution from a remote, 2-section distribution panel board.

Electrical infrastructure systems included interior and exterior lighting, emergency/egress lighting, site lighting, communications connectivity to provide a complete category 5 network, and smart center connectivity and lighting with teleconferencing.

Special systems for the facility included: security (CCTV, monitoring, access control and publications checkout control), addressable fire alarm and lightning protection.