

Davenport Police Facility

Davenport, Iowa

Cost:

Total: \$22,000,000.

Construction: \$20,000,000.

MEP Construction: \$5,400,000.

Owner:

Dee Bruemmer

Director of Public Works

1200 E 46th St

Davenport, IA 52807

Phone: (563) 326-7734

Email: dfb@ci.davenport.ia.us

Client:

Kevin Monson

Principal

Neumann Monson Architects

111 E. College St. Plaza

Iowa City, Iowa 52240

Phone: (319) 338-7878

Fax: (319) 338-7879

Email: [kmonson](mailto:kmonson@neumannmonson.com)

[@neumannmonson.com](mailto:kmonson@neumannmonson.com)

Team:

Pr-in-Chg: Dwight C. Schumm,
PE, LEED AP

PMgr: Dwight C. Schumm,
PE, LEED AP

Mech: Bill Holub, PE, LEED AP

Elect: Jim R. Russell, PE



This project is on track to become the first LEED™ certified municipal building in the state of Iowa. The state-of-the-art building includes 100,000 square feet of office, meeting, laboratory and training space located on three levels. In addition, the project includes a 38,000 square foot enclosed parking structure attached to the main building. The project, currently under construction, will be built on the site of the existing facility in two phases throughout which the police department will remain operational on the existing site.

The mechanical scope of work includes a water efficient plumbing system including waterless urinals, dual flush toilets and photovoltaic powered faucets. The entire facility is protected by an automatic sprinkler system. The HVAC system consists of a network of geothermal heat pumps, energy recovery ventilators with CO₂ based control, radiant floor for the parking facility and fully networked DDC controls.

The electrical scope of work includes energy efficient lighting with integrated day lighting controls, occupancy sensors and building-wide low voltage lighting controls. Emergency power is provided by a diesel generator sized to handle the load of the entire facility.

In addition to a structured cabling plant for telephone, data and CATV, the telecommunications scope of work includes complete surveillance and access control systems as well as AV systems for lecture and community rooms.

The completed building will use 55% less energy than a code compliant building saving the city an estimated \$115,000 dollars per year in energy costs. The water conservation features will save over 30% of the water of a standard building. In addition, green roofs, pervious paving and rain gardens will dramatically reduce runoff when compared to the existing site which contained a large hard surface parking lot.



DESIGN ENGINEERS, P.C.

MECHANICAL/ELECTRICAL CONSULTANTS