

NEW REGIONAL HEADQUARTERS

NYS Department of Transportation

Owner: New York State Office of General Services

Contact: Mr. James Davies, AIA. (518) 474-0337

Budget: \$20 Million (\$7.3 Million MEP)

Completed: 2003

LEED Silver Design Elements:

- ◆ *Interior & exterior light level optimization, maximizing kw consumption*
- ◆ *Low flow rate valve reduces water consumption*
- ◆ *Energy systems commissioning to optimize performance*
- ◆ *High efficiency motor and refrigeration systems*
- ◆ *Replaced ozone-depleting refrigerants with safe alternatives in all cooling systems*
- ◆ *Adjusted temperature control sequences in coupled systems*
- ◆ *Meet all ASHRAE requirements for ventilation effectiveness*
- ◆ *Indoor air quality verification*
- ◆ *Carbon dioxide sensors ensure quality air within building*
- ◆ *All systems carefully tuned and balanced for maximum efficiency and energy savings*



SCHENECTADY, NY — Plumb Engineering, P.C. provided design services for an important new 125,000 square foot downtown landmark. The state of the art building was designed to attain LEED Silver status and has also garnered multiple other design awards.

Plumb designed the mechanical, electrical, plumbing, security, and fire protection systems for the headquarters and subsequently administered construction during the build.

The mechanical system consists of a variable air volume system serviced by a heating hot water plant and a centrifugal chiller plant with cooling towers.

The electrical design includes a distribution system, connections to mechanical equipment, lighting and power panel boards, high tech fixtures, and convenience receptacles. In addition, race way systems for voice/data, fire, and smoke detection systems comply fully with ADA requirements.

The plumbing system includes all toilet room fixtures, gas piping to the boilers and domestic hot water heater, and a full domestic water distribution system. In addition, the fire alarms like directly to a full sprinkler distribution system, ensuring the building's protection.

The building is secured by a CCTV system monitoring important points in the building as well as through identification systems.



Above: State of the art lighting reduces the building's total kilowatt consumption

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