Piez Hall Extension

Oswego, NY

Mechanical

- Geothermal heat pump of capacity of 800 tons and 240 wells
- Two 54,000CFM and Two 60,000CFM Air handling units
- Five exhaust fans up to 20,000CFM
- Four shell and tube heat exchanger

Building Statistics

- Size: 210,000 sq. feet
- Stories: 6 (including roof)
- Cost: $110 million
- Delivery methods: Single Prime Contract
- Construction dates: To be completed by April 2013

Sustainability

- Achieved LEED Gold Certification
- Efficient water fixtures
- Recycled building material
- Energy efficient curtain wall system
- Photovoltaic array skylights
- Wind turbine

Lighting/Electrical

Mostly fluorescent T8 and T5HO

Exterior consist of Metal Halide Lamps

Building Utilization Voltage: 120-277VAC

Structural

- Shear Walls and diagonal bracing are the main lateral force resisting systems.
- Foundation system are supported by shallow spread footings.
- Conservatory and planetarium consists of steel framing system.
- Typical framing system consists of concrete flat plate, one way and two way slabs with drop panels in most column locations.

Architecture

The building has many interesting architectural features such as asymmetric shapes and cantilevers. Its exterior curtain walls façade gives off a feeling of sublime yet fragile illusion. The masonry brick wall on the other side of the façade gives off a sense of bulkiness which keeps the glass façade in harmony.