

Manassas Park Elementary School

Architect:

VMDO Architects

Contractor:

Hess Construction

Structural Engineer:

Fox & Associates

Civil Engineering:

Bowman Consulting

MEP Engineer:

2rw Consulting Engineers

Foodservice Consultant:

EIS Incorporated

Commissioning Authority:

Sebesta Blomberg & Associates

Construction:

Proposal: October 2006

Overall Project Cost: \$33 Million

Substantial Completion: March 2009

Project Delivery Method: Design-Bid-Build

Structure:

Foundation: CMU.

Support is provided by

4" slabs on composite decking,

held in place by a 33' x 22' grid of steel

columns supporting wide flange beams and open web steel joists of varying sizes

Mechanical Systems:

The buildings air is heated and cooled by multiple heat pumps, and is ventilated by 5 outside air units and a makeup unit. The heat pumps are connected to a 200-well geothermal system, where heat is either absorbed or rejected depending on seasonal needs.

Lighting:

The lighting systems consist mostly of pendant type dual lamp dimmable 32 Watt T-8 fixtures connected to both photocells and occupancy sensors. In the Gym and Library, light wells are used to distribute clean, natural daylight to the occupied spaces when artificial lighting is unnecessary.

Cougar Upper Elementary School was designed to achieve an educationally productive and environmentally friendly space to enrich the lives of school children in grades three through five. The architecture of this building is focused on sustainability and constructability; it takes simple cubes and through extrusions and indentations creates visually pleasing forms that interact with humans and nature to achieve an aesthetically satisfying design.

