

HOLMAN MIDDLE SCHOOL HENRICO COUNTY, VIRGINIA

County-wide Commitment to Sustainable Design

Size: 120,000 S.F.
Budget: \$27,000,000
Bid: \$23,215,150
Completion: August 2010



Holman Middle School is a two-story building designed to accommodate approximately 900 students and 60 staff members. This facility is Leadership in Energy and Environmental Design (LEED®) Silver certified. High-performance and sustainable design and construction strategies include:

- using bicycle paths and racks as well as preferred parking and drop-off areas for low-emitting and fuel-efficient vehicles;
- employing stormwater management strategies like bioretention basins and an underground rain tank that reduce the quantity and improve the quality of stormwater discharge;
- using light roof colors that prevent excessive heat gain to the building;
- installing low-flow plumbing fixtures to reduce water use by about 40 percent over standard fixtures;
- reducing energy use by about 30 percent over a standard design through the use of efficient mechanical equipment, an air barrier, and high-performance glazing and lighting systems;
- using recycled content/regionally-manufactured materials during construction;
- utilizing Forest Stewardship Council (FSC)-certified wood products;
- employing low-emitting materials during construction such as carpet, adhesives and sealants, paints and coatings, and composite wood;
- providing high acoustical performance by reducing sound transmission, reverberation, and background noise;
- increasing occupants' comfort with lighting and thermal controls; and
- using a green housekeeping plan that limits the use of harmful cleaning chemicals and protects indoor air quality.

