

GLEN ALLEN SCHOOL HENRICO COUNTY, VIRGINIA

Henrico County Public Schools Seeks Silver



Size: 255,000 SF
Budget: \$62,500,000
Bid: \$58,600,000
Completion: 2010

The new Glen Allen High School is designed to accommodate approximately 1,800 students and 200 staff. Henrico County Public Schools has established the goal of Leadership in Energy and Environmental Design (LEED®) Silver certification for all new schools; therefore the following strategies were implemented into this project to meet that goal.

- The daylight flooded building is modeled to require 28 percent less energy than code with efficient HVAC, insulation, glazing, and an air barrier system.
- The facility was sensitively sited around existing wetlands and stormwater management practices reduce the quantity and improve the quality of stormwater discharge.
- Over 60 percent of the site will be preserved as open space and used for instructional purposes.
- A 50,000-gallon cistern collects stormwater and reuses it for flushing.
- Low-flow plumbing fixtures and stormwater reuse result in an 80 percent water use reduction compared to the same school with standard plumbing systems.
- A high-efficiency irrigation system will maintain athletic fields with less than half the normal water usage.
- Over 90 percent of construction waste was diverted from landfills by salvage or recycling.
- Building materials contain about 35 percent recycled content and 25 percent regionally extracted, processed, or manufactured materials
- Lighting and thermal comfort systems offer a high level of occupant controllability.
- Indoor air quality was protected through the use of low-emitting materials such as paints, adhesives, carpet, and composite wood.