



Short Pump Firehouse 19

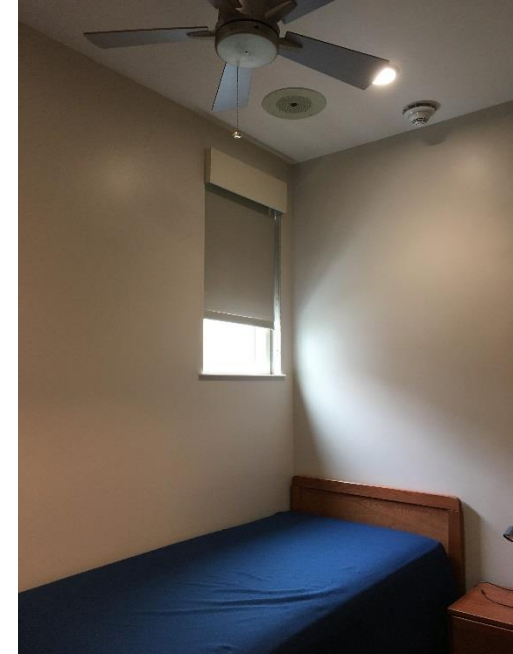
Henrico County, Virginia

LEED Project Profile



LEED® version 2009
Building Design + Construction
Certification Level: Gold
Certification Date: 1/17/2019

Henrico County's Short Pump Firehouse 19 is a new construction 11,000 square foot fire station located in the Short Pump area of Henrico County, Virginia that opened in 2018. Spaces include living and sleeping areas, offices and meeting rooms, a workout room, and three drive-through apparatus bays. The project earned Leadership in Energy and Environmental Design (LEED®) Gold certification by reducing environmental impact in the areas of site, water and energy use, building materials, and indoor environment. Achievement of LEED certification enforces Henrico County's commitment to environmental stewardship, resource use reduction, and enhancing quality of life for its employees and residents.



Sustainable sites issues include location, transportation, stormwater, and parking. Storage for bicycles and preferred parking for fuel-efficient vehicles or carpools is provided. The light pavement and roof reduce the urban heat island effect. The LED parking lot lights reduce light pollution.



Water-efficient design conserves drinking water. Landscaping with native plants eliminates the need for irrigation. Water-saving plumbing fixtures such as sinks, showers, and flush fixtures are saving over 57,000 gallons of water each year in this building--a 43% reduction compared to standard fixtures.



Energy and atmosphere strategies reduce energy use and emissions. Well-insulated walls, windows, and roof reduce the load for building systems. Variable HVAC with energy recovery and LED, sensor-operated lights contribute to a nearly 27% energy use reduction compared to standard construction.



Materials and resources planning reduces waste and encourages new building materials with less environmental impact. 88% (102 tons) of the construction and demolition waste was recycled. New materials were selected that were made regionally using high recycled content.



Indoor environmental quality strategies seek to improve conditions such as air quality, acoustics, and daylight. All adhesives, sealants, paints, flooring, and composite wood used inside this building are low chemical-emitting. Most spaces have abundant daylight. Ceiling fans improve thermal comfort.