



Green School Building
New Construction

DESIGN RESOURCES GROUP ARCHITECTS, AIA

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DESIGN TEAM

Maitra Associates, Site/Civil/
Mechanical, Electrical,
Plumbing Engineers
Harrison Hamnett, PC,
Structural Engineers
TAK Construction Co.,
General Contractor
HEERY International,
Construction Manager

OWNER/CLIENT

Phillipsburg School District
Phillipsburg, NJ
Judy Leh, Principal
908/213-2700

Type of School
and Grades Served:
Early Childhood, Pre-K to K

Capacity: 450 students

Size of Site: 11 acres

Area of Building:
86,000 square feet

Volume of Building:
1.6 million cubic feet

Space per Student:
190 square feet

Cost per Student: \$4,444

Square Foot Cost: \$233

Cost of Construction: \$20 million

Total Project Cost: \$25 million

Contract Date: Dec. 2003

Completion Date: Jan. 2006

Percent of Completion: 100%

Phillipsburg Early Childhood Center

Phillipsburg, New Jersey

Design Resources Group Architects, AIA



AERIAL PHOTO OF OVERALL BUILDING

The new 86,000-square-foot Early Childhood Center—the first public school in the state to receive LEED Silver certification—was designed to provide a healthy environment for the community's youngest students and to outperform conventional buildings through energy efficiency. Unique features of the school include sun shades over classroom windows to maximize daylighting and minimize direct sunlight; daylight-compensation light switching; a dedicated outside-air system with high-performance filtration; and a thermal storage HVAC system.

Locally manufactured and harvested building materials were selected to reduce the fossil-fuel consumption required to transport building products to the site. A 26-kilowatt photovoltaic solar array was installed on the roof of the gymnasium through a grant from the New Jersey Board of Public Utilities. High-performance boilers and air-conditioning units provide a comfortable environment while minimizing energy use. The project team also



CAFETORIUM



SUN SHADES OVER WINDOWS

established a waste management program that diverted more than 75 percent of construction waste away from landfills.

All of the steps taken in the design and construction of the new facility were focused on

two goals: to improve the learning environment for the district's early childhood students and to reduce the building's impact on the environment, both during construction and throughout its years of operation. ■

PHOTOS: TOP, ARTISINTHESKY.COM; MIDDLE & CENTER, ROBERT FAULKNER