

# LEED Profile

## Herod Elementary School

### Achievements

- 24%** reduction in energy consumption
- 43%** reduction in water use
- 22%** recycled content of materials
- 14%** use of local/regional materials
- 87%** construction waste diverted from landfill



### Project Description

Gary L. Herod Elementary School is a 750 student replacement school that serves Pre-K through fifth grade and is located in the Maplewood/Meyerland West area in southwest Houston. The school is named in memory of Texas Air National Guard Captain Gary L. Herod. When Herod Elementary opened in 1965, it served many families with young children in the neighborhood. As the years went by, the neighborhood increased in size. To keep up with the changes, HISD elected to build a new school for the community and decided to show its commitment to protecting the environment by pursuing LEED Certification.



#### Sustainable Overview

- The new school was built on the same campus as the original building
- Takes advantage of existing utilities and avoids the environmental impacts of an undeveloped site



#### Water Efficiency

- Water use is reduced because landscape design incorporates a drip irrigation system.
- Water used in the building is reduced by low-flow plumbing fixtures.



#### Energy & Atmosphere

- High efficiency lighting and a water-cooled chiller decrease the building's energy demand.



#### Materials & Resources

- Vegetation is native or adapted for local climate, reducing the need for irrigation



#### Indoor Environmental Quality

- 90% of occupied spaces, including all classrooms, have windows for outdoor views and natural daylight



#### Innovation and Design

- Bio-swales and grate-inlet skimmers remove 80% of suspended solids from 90% of storm water runoff
- More than 25% of storm water runoff is reduced by underground rain tanks
- 90% of occupied spaces, including all classrooms, have windows for outdoor views and natural daylight
- Curriculum developed for each LEED category so that students can learn about a Green School

### LEED® Facts

LEED for Schools (v2007)

**Silver 38\***

Sustainable Sites	8
Water Efficiency	4
Energy & Atmosphere	7
Materials & Resources	5
Indoor Environmental Quality	9
Innovation & Design	5

\* Out of a possible 78 points

### Project Information

**Owner:** Houston Independent School District (HISD)

**Address:** 5627 Jason St., Houston, TX 77096

**Architect:** Kirksey Architects

**Civil Engineer:** Klotz Associates

**MEP Engineer:** DBR Engineering Consultants

**Commissioning Agent:** E&C Engineers & Consultants

**Contractor:** Anslow Bryant Construction

**Project Size:** 85,600 SF

**Project Budget:** \$15,471,658

**Opened:** January 2011

### About LEED

The LEED Green Building Rating System is the national benchmark for the design, construction, and operations of high-performance green buildings. Visit the U.S. Green Building Council's Web site at [www.usgbc.org](http://www.usgbc.org) to learn more about how you can make LEED work for you.