



Laveen Village, AZ

Located in the southwest corner of the Phoenix valley, the Gila Crossing Day School is a K-8 institution serving the Gila River Indian Community. Comprised of four main buildings including administration, library, gymnasium and classrooms the school design focused on seamlessly connecting indoors to outdoors with open space planning and daylighting in all regularly occupied spaces. The LEED campus approach was applied to the development, and the campus features an open outdoor setting where teachers and students pass from class-to-class outdoors while taking in the general commons area. Low-emitting materials were used throughout the buildings to reduce the harmful effect of VOCs, and the project also utilized the LEED Pilot Prerequisite that requires continuous IAQ monitoring to improve the health of all occupants...an impressive commitment in the Corona virus era.



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SUSTAINABLE STRATEGIES

- Improved air quality performance via ionizers which filter contaminants and reduce health risks in accordance with ASHRAE standard 62.1-2010: a leading guideline to provide proper ventilation and monitoring of the HVAC system
- Low-emitting materials were used to reduce the harmful effect of VOCs
- Replicated natural hydrology and water balance of the site by capturing and managing 100% of stormwater onsite
- Cool roof strategies incorporated to minimize effects on microclimates by reducing the urban heat island effect
- Native, adaptive landscaping reduces the amount of potable water needed for irrigation
- Materials selected to maximize recycled content include aluminum curtain wall, framing, steel, insulation and drywall

PROJECT RESULTS

- LEED** for Schools
SILVER level achieved
- 35%** energy cost savings above ASHRAE 90.1-2010 standard
- 39%** reduction of potable water for domestic use
- 73%** reduction of potable water for irrigation
- 76%** of construction waste was diverted from landfills

LEED Facts

LEED for Schools v4
Size: 121,800 SF
Certification Date: 1-14-21



POINTS ACHIEVED **53/110**

	Location & Transportation	4/15
	Sustainable Sites	8/12
	Water Efficiency	6/12
	Energy & Atmosphere	17/31
	Materials & Resources	4/13
	Indoor Environmental Quality	6/16
	Innovation	6/6
	Regional Priority	2/4

Think

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