



# Willowwind School

Iowa City, IA

**Location:** 950 Dover Street, Iowa City

**Design:** Neumann Monson Architects

**Type of Construction:** Adaptive Reuse

**Construction Cost:** \$2,450,000

**Square Footage:** 17,033

**Cost per Square Foot**

**(including site work):** \$144

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**Project Description:** The Willowwind School, a private K-8 institution located in Iowa

**Sustainable Features:** City, recently moved from its old home in a renovated house to a building that was renovated to fit the school's needs. Before the school bought the building it housed a church and then the Moose Lodge. The interior of the building was completely renovated and an additional 2,000 square feet were added to the building. The project uses the latest sustainable design techniques and materials, including clerestory windows and two small green roofs. The project hopes to achieve LEED Silver certification.

Located on a previously developed site on an existing bus route

Located within a half mile of a bank, school, church, pharmacy, medical center, park, aquatic center, grocery store and restaurants

Green roofs and reflective surfaces reduce heat island effect



63% of the site is dedicated to open space with vegetation

Vegetation does not require irrigation

Rain water is diverted to rain gardens and storm water runoff is reduced by 61%

Water usage is reduced by 47% through the use of low-flow sinks and lavatories, dual flush toilets and waterless urinals

Energy use is reduced by 53% compared to ASHRAE 2004 standards through the use of high efficiency lighting, dimming controls, occupancy sensors, geothermal heating and cooling, and high efficiency fans

87% of the existing structure was retained and reused

Over 20% of the content of materials used was recycled, including piping, asphalt, aluminum windows and ceiling tile

Over 27% of the materials used were manufactured within 500 miles of the project, including asphalt, concrete, masonry, steel, doors, metal studs, and windows

An indoor air quality plan was implemented during construction to prevent the imposition of pollutants by the construction process

Building was flushed out with outdoor air prior to occupancy

Adhesives, sealants, paints and carpet are low- or no-VOC

Occupants have individual control of the temperature of their classrooms or offices

All classrooms and offices have operable windows

Over 65% of interior spaces have access to daylight

Over 90% of the interior classrooms, gathering spaces and offices have window views to the outdoors

Photos: Alan Stoker

