



**Green School Building**  
New Construction

**TMP ASSOCIATES, INC.**

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Bloomfield Hills, MI  
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Mitchell and Mouat  
Architects, Inc.  
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**DESIGN TEAM**

Peter Basso Associates, Inc.,  
Mechanical/Electrical  
Engineering

Becket and Raeder, Inc.,  
Landscape Architect

Councilman Hunsacker &  
Associates, Aquatic Consultant

TLS Sales, Inc.,  
Theater Consultant

Boner Associates, Inc.,  
Acoustical Consultant

E. F. Whitney, Food Services

**OWNER/CLIENT**

Whitmore Lake High School  
Whitmore Lake, MI

Kimberley Hart, Superintendent  
734/449-4464

Type of School and  
Grades Served:  
High School, 9-12

Capacity: 500 students

Size of Site: 82 acres

Area of Building:  
155,264 square feet

Volume of Building:  
29.6 million cubic feet

Space per Student:  
311 square feet

Cost per Student: \$61,101

Square Foot Cost: \$197

Cost of Construction:  
\$30.6 million

Total Project Cost:  
\$36.2 million

Contract Date: May 2004

Completion Date: Aug. 2006

Percent of Completion: 100%

# Whitmore Lake High School

*Whitmore Lake, Michigan*

TMP Associates, Inc.



SUN SHADES



GALLERIA

**W**hitmore Lake High School is a new 155,264-square-foot facility on an 82-acre site. The school is one of only about five LEED Silver Certified comprehensive high schools in the nation.

The team worked together to develop the green strategies that would become the foundation of the new school. Initiatives included a new pond, use of high albedo paving, a white roof, high-efficiency plumbing fixtures, a geothermal heat pump system, low VOC materials, materials with high recycled content, and indoor air quality measures.

Early in the process, an underground geothermal system was identified as the best energy-saving strategy for the Michigan climate. The design team made project adjustments to allow for its inclusion.

The underlying theme of the



STUDENT ENTRY

overall design for the school was efficiency. Flexibility and multipurpose spaces were keys to success. Shared science labs and a flexible cafeteria that can combine with an auditorium are two examples.

Science lecture rooms share a common lab instead of each having individual labs. Bleacher seating in the auditorium deploys back into the cafeteria, saving almost 3,800 square feet. ■

PHOTOS: CHRISTOPHER LARK PHOTOGRAPHY