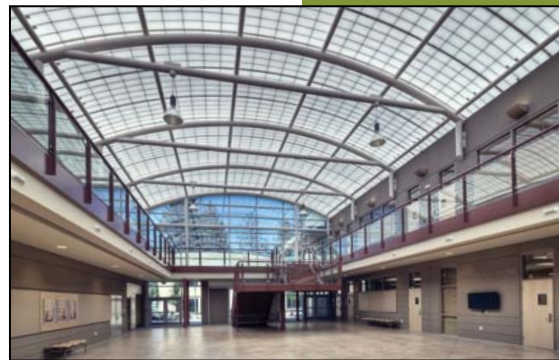
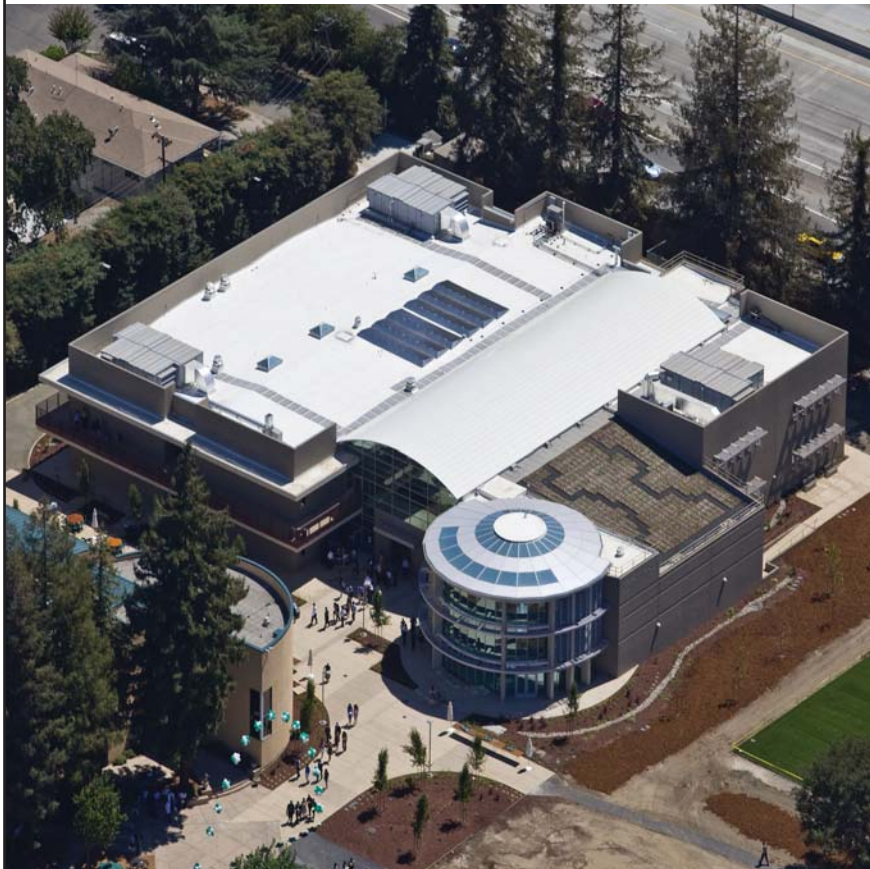




Inspiring future generations to change the world, XL Construction helps The Harker School go green.



Inspiring future generations to change the world, XL Construction helps The Harker School go green on their new design-build project.

To construct a Science and Technology Center that any university would be proud to call home, The Harker School choose XL Construction, citing XL's experience with both laboratory and sustainable facilities. The center now serves as a landmark building on their high school campus, setting an example of environmental responsibility, while giving Harker students a place to gather, learn and most importantly, be inspired.



851 Buckeye Court
Milpitas, CA 95035

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The Harker School's
Science & Technology
Center, Nichols Hall
San Jose, CA

OVERVIEW

A design-build project for a new two-story, 50,000 square-foot science and technology center. The building includes a 200-seat auditorium, a glass rotunda with an infinite pendulum tracking the earth's rotation, a living roof, a forum with embedded radiant floor heating for students to gather in, and 15 classrooms including robotics, biology, chemistry, and multimedia labs.

GREEN FEATURES

- Designed and submitted for LEED silver certification, green features of the building include:
- a direct/indirect evaporative cooling system (DIEC) cools and changes the air six times per hour using roof mounted fans and gravity vents, and uses 25 percent less energy than conventional systems
 - an indoor air quality plan implemented during construction which included: protection of HVAC ducts; the use of low-VOC and no-VOC emitting materials; and confirmation of material ventilation and off-gassing requirements
 - recycled material used where possible, including the structural steel which has recycled content
 - construction waste diversion of almost 95 percent during construction
 - building energy systems controlled and commissioned for maximum efficiency
 - on the roof, white material has a high solar reflection index and a living roof over the auditorium aids in cooling. Solar panels have been installed to help generate electricity for the building
 - a Kalwall curvilinear roof system covering the forum provides day lighting and insulation
 - highly efficient glazing on windows reduces solar heat transfer
 - landscaped bioswales filter and reduce runoff water through percolation
 - plumbing fixtures with an expected 44.6 percent reduction in water usage from baseline

PROJECT TEAM

Contractor XL Construction Corporation
Architect DES Architects+Engineers, Inc.
Master Plan Architect Green 3 Studio, Inc.
Design-build HVAC Western Allied Mechanical
Design-build Electrical AMS Electric



Learn more about The Harker School and other LEED projects by visiting XL Construction at www.xlconstruction.com/green

Printed on 100% post-consumer recycled paper using soy-based inks

Ground Photos by Marco Zecchin, Image Center /Aerial by Skyhawk Photography

WWW.XLCONSTRUCTION.COM/GREEN