

2012 Exhibition of School Planning and Architecture

San Marcos High School

San Marcos, California
High School
Design Concept
LPA, Inc.

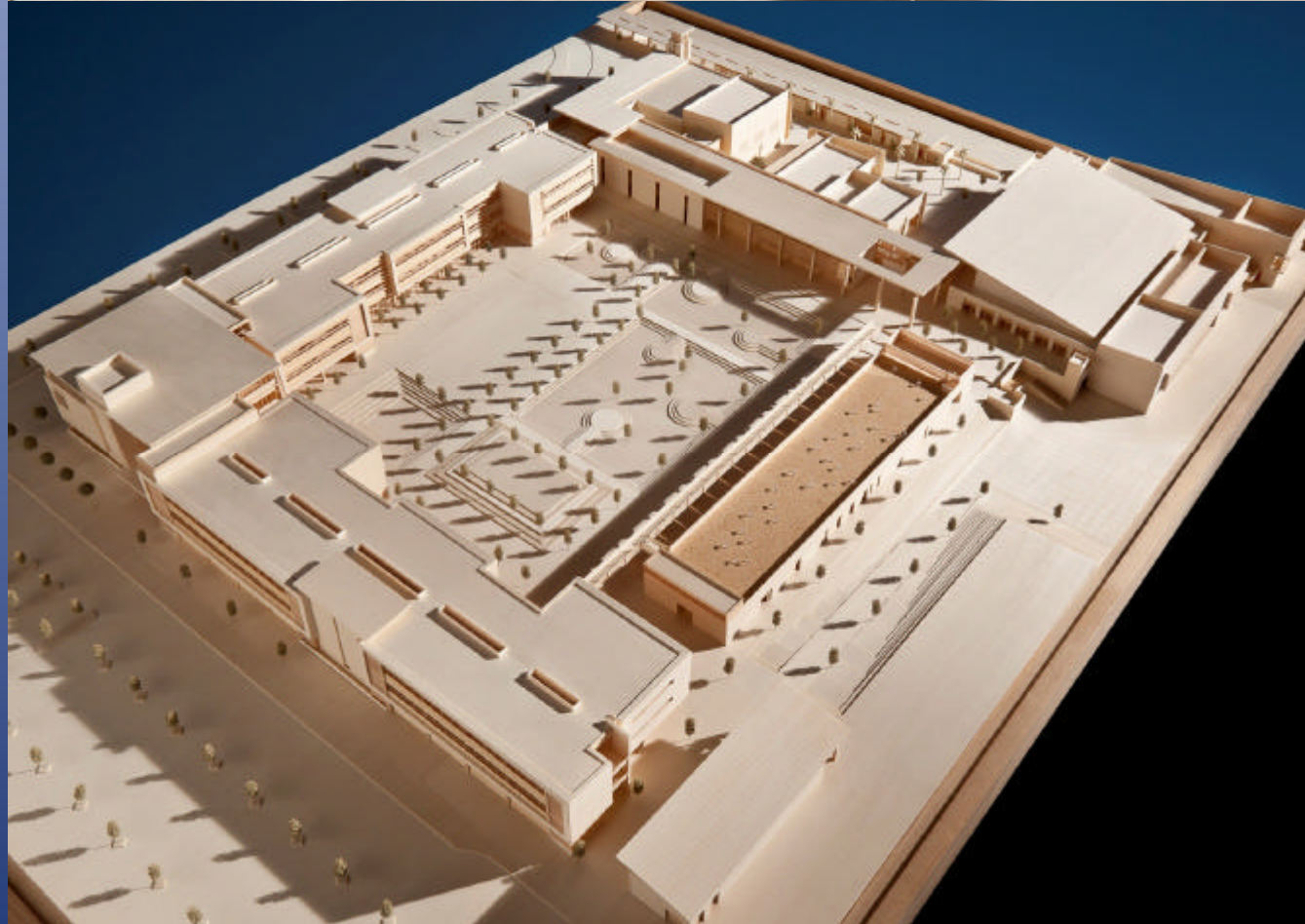
San Marcos High School



Student Entry

Community Environment:

Funded by a 2010 Local Bond election, the \$125 million San Marcos High School project includes the phased reconstruction of the entire project site. When completed in the fall of 2013 the facility will be transformed from a current 2,300 student capacity, single-story radial plan complex, to a 3,200 student capacity learner-centered, multi-story educational facility organized around a central quad. This new facility will provide equity with the other District high school and include four specialized academies linked by a student commons that will provide administration, library, food service, and student services.



Celebrate the Community – A New Image

Community Environment:

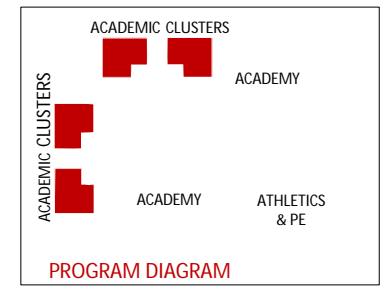
Based on identified needs in the local community, the four academies are Design & Engineering, Environmental Science & Agriculture, Performing/Media Arts. As more than 600 students were on campus longer in extracurricular activities, studying and working collaboratively, district leadership recognized that a collegiate model student union would provide a better space for this extended learning to occur. SMHS presents a new and distinguished resource for the community, representative of the 21st century learning environment that will be available to residents for generations to come.



Student Collaboration

Learning Environment:

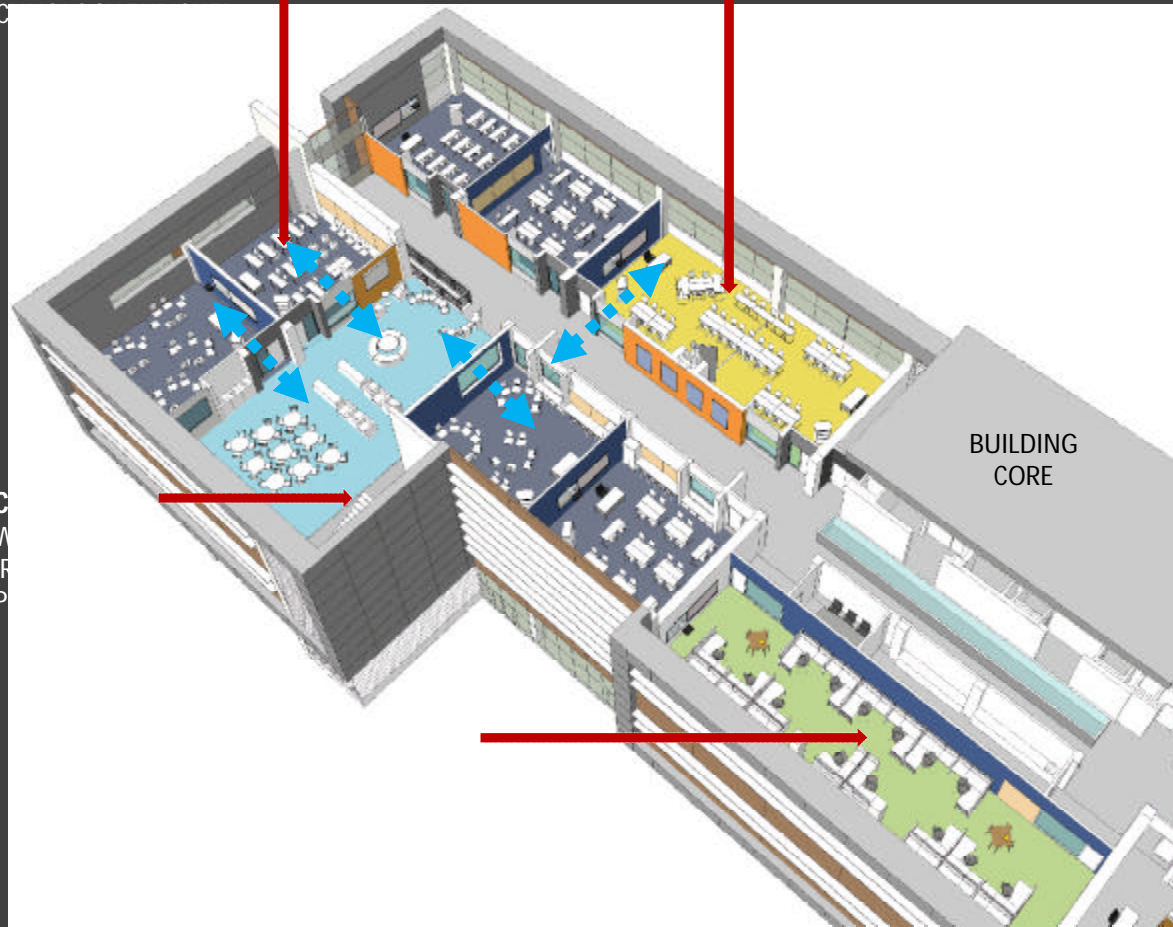
The shared learning commons supports the current campus organization by discipline, but adapts to a collaborative interdisciplinary model in the future. The movable furniture and a mix of hard and soft surfaces support a variety of learning styles, increases social interaction and promote communication among students and faculty. Flexibility to account for changing needs has been designed into the facility to adapt to future technological changes, allowing the campus to stay current and relevant.



TYPICAL CLASSROOM
FLEXIBLE ARRANGEMENT
ERGONOMIC FURNITURE
TECHNOLOGY

SHARED CLASSROOM
OPERABLE WALL
TEACHER & STUDENT COLLABORATION

SHARED CLASSROOM
STUDENT WORK
INDIVIDUAL OR
TEAMING & PROJECT



Student Union

Learning Environment:

The Student Union is the student gateway to SMHS.

This collaborative social space is home to the Library Reading Center, the Student Store, and the Career Center. These programs focus on student success and engagement with campus life and the surrounding community. Open before, during and after school, the Student Union provides a variety of seating, a large projection system, and direct views to the quad amphitheater. The Student Union will be the heart of this campus and supports the 'learning anywhere, anytime' philosophy that defines a 21st century student.



Environmental Section

Physical Environment:

This campus is a teaching tool and serves as a model for the sustainable education of students. It uses fly-ash cast in place and tilt-up concrete for structure and floors with benefits of thermal mass. A central plant with interactive window and exposed mechanical system convey the efficient loop organization to students. Energy savings are achieved through solar tubes, light shelves and high performance glazing specific to the building orientation and program use. Roof forms promote alternative energy with PV on the gym roof and future green roof on the Engineering academy.

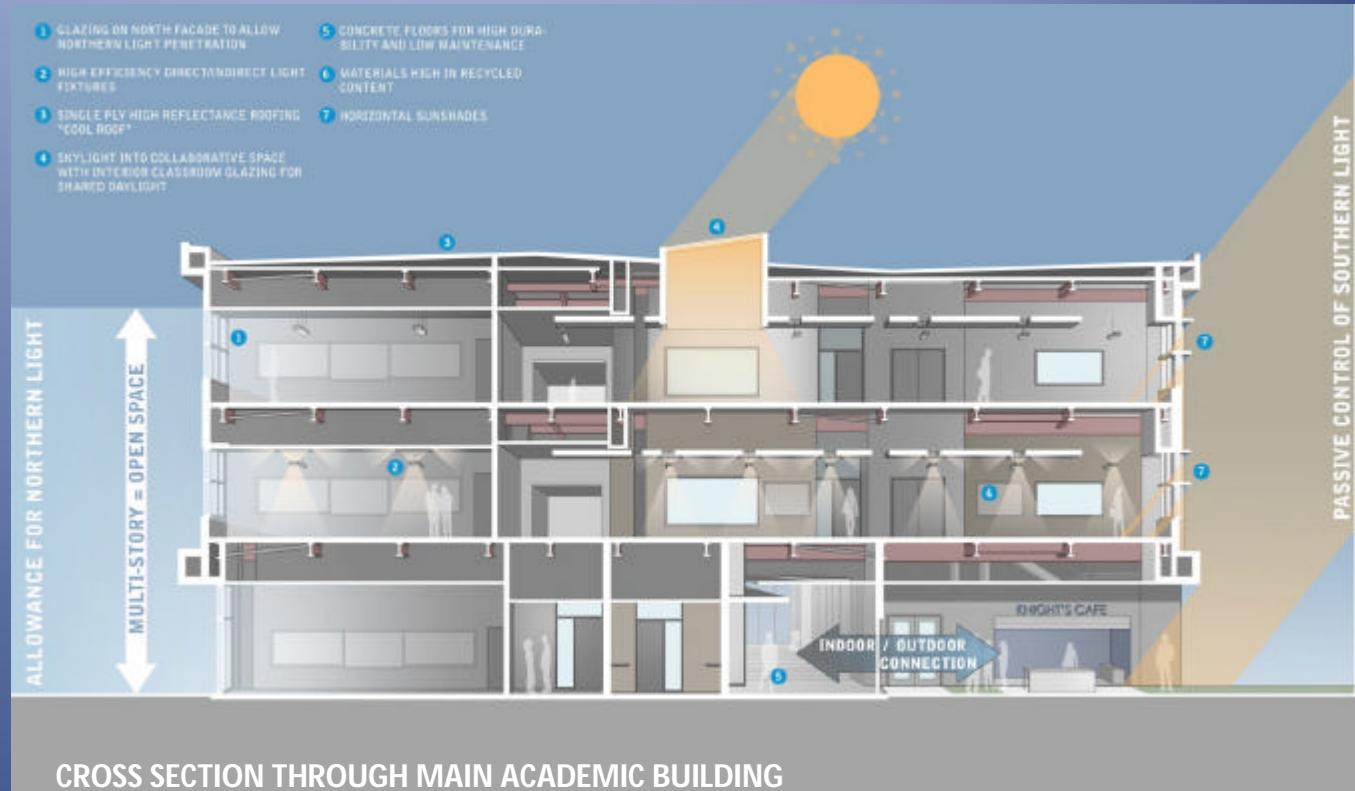


Image title

Physical Environment

The campus performs 25% better than Title 24. The site is organized with bio-swales at the site perimeter and town square, uses high efficiency irrigation and a palette of California native and drought tolerant plant species. The exterior skin of Swiss Pearl and Trex is high in recycled content, and regional and recycled content interior finishes were specified where possible. This campus will be used as an expanded learning environment and each sustainable strategy will be described to students with signage and interactive displays throughout the campus.



The Town Square

Planning Process:

An interactive and inclusive design process was led by the design team and contractor that engaged students, parents, educators and administrators of the San Marcos community to plan this campus. The district leadership took part in multiple site tours which confirmed their desire to include a Student Union and shared commons as a critical part of this new learning environment. This diverse group also participated in a workshop to build consensus in developing the site .



Festival Court

Planning Process:

Their authorship resulted in the school embracing a single outdoor “Town Square” to promote security and a sense of community.

The desire to create a prominent street presence to the elevated intersection at the northwest corner of the site that showcased education and reinforced the success of their local school bond was important. Multi-story construction was a cultural shift for the school, but the benefits of a more collaborative learning environment and the ability to maximize available land for athletics and community recreation, as well as maintaining visual connection to the surrounding hillside open space, were significant.



Exhibition of School Planning and Architecture

Project Data

Submitting Firm :	LPA, Inc.
Project Role	Architectural, Landscape, Interior, Graphics, Civil, Electrical and Mechanical Engineering
Project Contact	Wendy Rogers, AIA
Title	Design Principal
Address	5161 California Avenue, Suite 100
City, State or Province, Country	Irvine, CA 92617
Phone	949.261.1001
Joint Partner Firm:	n/a
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	
Other Firm:	n/a
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	
Construction Firm:	Lusardi Construction Company
Project Role	Pre-Construction and Lease/Leaseback Contractor
Project Contact	Jeff Jenco
Title	Vice President
Address	1570 Linda Vista Drive
City, State or Province, Country	San Marcos, California, 92078 USA
Phone	(760) 744-3133 x1220

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Project Details

Project Name	San Marcos High School Reconstruction
City	San Marcos
State	California
District Name	San Marcos Unified School District
Supt/President	Kevin D. Holt, Ed.D.
Occupancy Date	September 2013
Grades Housed	9-12
Capacity(Students)	3200
Site Size (acres)	45.3 Acres
Gross Area (sq. ft.)	412,000 SF
Per Occupant(pupil)	129 SF/Pupil
gross/net please indicate	412,000/278,600 = 1.48
Design and Build?	Yes
If yes, Total Cost:	\$136,000,000
Includes:	Site, Building (including Central Plant), Fixed Equipment
If no,	
Site Development:	
Building Construction:	
Fixed Equipment:	
Other:	
Total:	

School Administration



Student Connection

Learning Environment:

From the Student Union quad level circulation provides students with more than just a path of travel. The transparent connection between education and community is emphasized with multiple sliding glass doors to the exterior and a direct connection to almost every stair on campus. These edges open to the Quad on the ground floor and connects students to the administrative and student service functions of the campus. These spaces are lined with opportunities for display of student work, school spirit and informal gathering.



Shared Commons



Gymnasium

