



# PROFILES IN ARCHITECTURE

Concrete Masonry is

## Safe & Sound

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“Keep our community safe and sound.  
Build our facilities with concrete masonry.”





## ROY MARTIN MIDDLE SCHOOL

LAS VEGAS, NEVADA

**ARCHITECT:**

**Pugsley, Simpson, Coulter, Architects**  
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 Las Vegas, NV 89121

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*Principal*

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Mendenhall Smith Structural Engineers

**GENERAL CONTRACTOR:**

Pace Contracting Company

**MASONRY CONTRACTOR:**

Ramco Masonry, Inc.

**BLOCK PRODUCER:**

Tri Delta (a subsidiary of Oldcastle, APG West)  
 ORCO Block Company, Inc.

**OWNER:**

Clark County School District

**Architect's Commentary:** Roy Martin Middle School is a replacement for an existing school, where in 2004 the gymnasium fell victim to arson. While not all parts of the school were destroyed, the Clark County School District made the decision to replace it with a new prototype.

Due to multi-level classroom pods (a first for Clark County School District), the courtyard became the hub of the school. All school functions occur on or around this court. The courtyard serves as an organizational element as well as a central gathering place for students and teachers. Classes can be conducted in the amphitheater, science projects can be performed, and teachers can casually talk with students in this central binding space.

Additionally, a pedestrian and vehicular circulation analysis was performed on the school. This analysis aided in the development of such things as comfortable widths of hallways and stairs, the number of entrances to the school, easing vehicular congestion and, most importantly, lessening emergency evacuation times.

The use of concrete masonry (CMU) was essential to the design success of the school. Integral colored split face and single score units were used to not only provide texture to large walls, but to visually break up the two-story structure and reduce the impact of potential graffiti. The ability to combine structure with the finished exterior surface was an overriding factor for use of CMU, and allowed the project to stay under budget. In addition, CMU provided structural flexibility, which allowed us to locate fenestration to use exceptional day lighting techniques to bring natural light into the classrooms, and thus, reduce energy costs.

Day-lighting for the two-story classrooms occurs in two ways: Classrooms on the second level have direct light from above via roof monitors and windows, allowing for even lighting throughout the room. Classrooms on the first floor receive daylight via light shafts that penetrate between classroom pods on the second floor to rooms on the first. These light shafts also act as ancillary space for mechanical and electrical needs. The school is capable of receiving enough daylight throughout the year to only require artificial lighting 30% of the time classrooms are in use.



Photography: Janae Shields, Janae Shields Photography



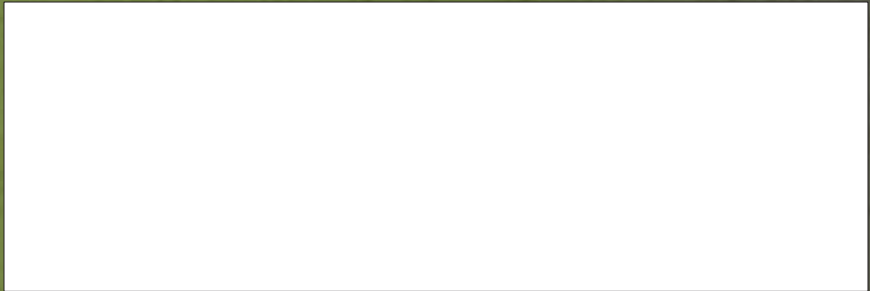
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## 2011

### CMACN/AIACC CONCRETE MASONRY DESIGN AWARDS

Mark your calendar for our "Call-For-Entries" brochure to be mailed in February 2011. Requests for submittal binders can also be obtained in February 2011 by calling the CMACN office at (916) 722-1700, from our website at [www.cmacn.org](http://www.cmacn.org), or by e-mail at [info@cmacn.org](mailto:info@cmacn.org).

#### Tentative Schedule:

Last date to request submittal binders: March 31, 2011

Last date for postmark of completed submittal binders: April 30, 2011  
2011 Concrete Masonry Design Awards Banquet: Friday, September 23, 2011

#### ARCHITECTURAL CONCRETE MASONRY

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*Concrete Masonry Association of California and Nevada (CMACN) a nonprofit professional organization established in 1977, is committed to strengthening the masonry industry in California and Nevada by providing:*

- Technical information on concrete masonry for design professionals.
- Protect and advance the interests of the concrete masonry industry.
- Develop new and existing markets for concrete masonry products.
- Coordinate members' efforts in solving common challenges within the masonry industry.

For further information contact us at:  
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