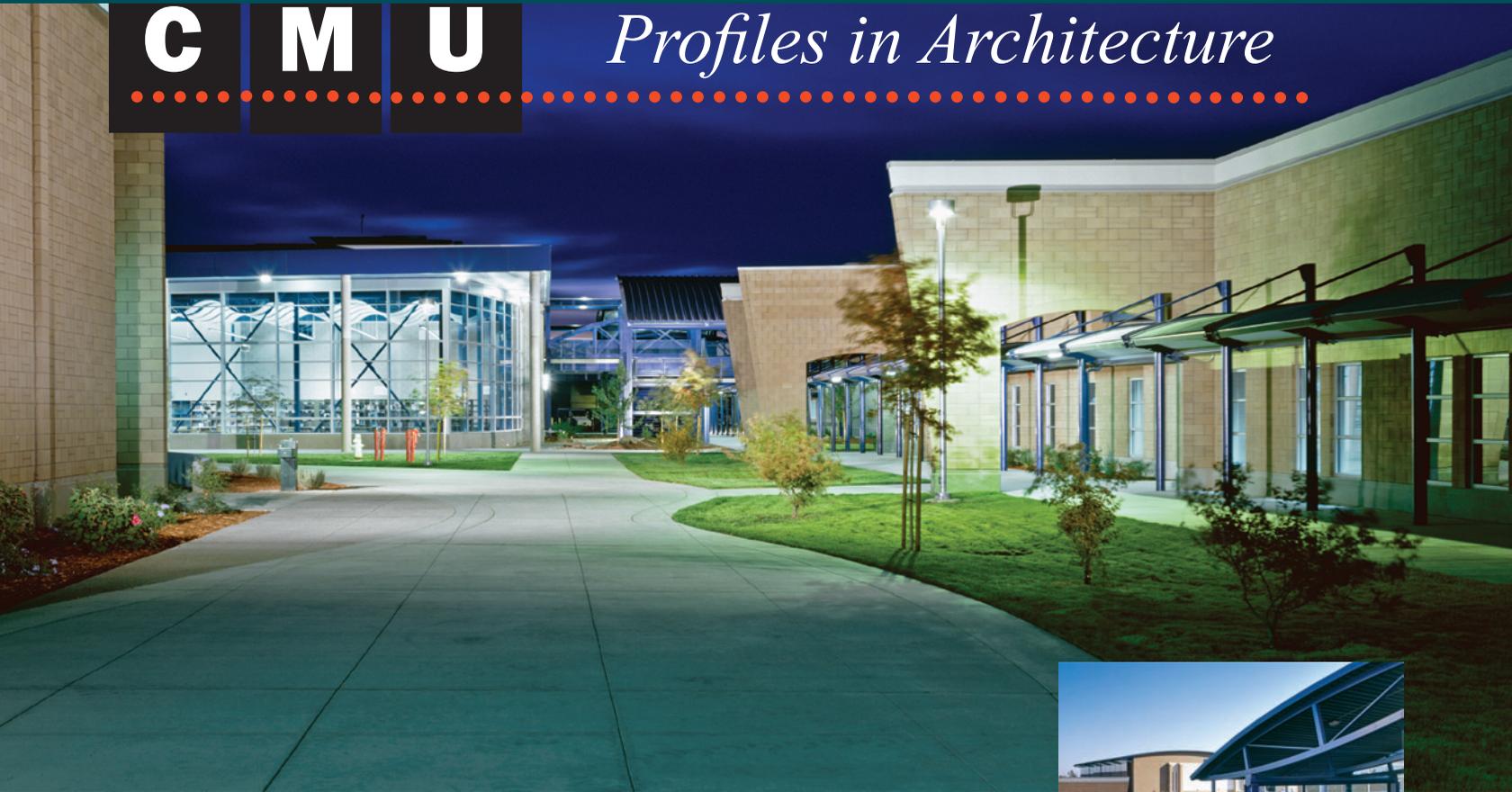


**C M U**

# Profiles in Architecture



## ROSEMONT HIGH SCHOOL SACRAMENTO, CALIFORNIA

Providing the ultimate in educational flexibility, Rosemont offers four classroom clusters revolving around a central flex-lab: an open space designed for a variety of project-based or collaborative learning opportunities across disciplines. Classroom clusters can be organized departmentally, in a grade level configuration, or into smaller learning communities. Each story of the classroom building typically contains 12-14 multi-purpose classrooms, a centrally located flex lab and a teacher-planning center.

The campus is divided by a 40-foot topographic elevation drop into two distinct areas:

- Main campus school buildings
- A unique first-class stadium

Type of construction is masonry bearing with steel beams. Materials include integral colored masonry block on exposed concrete stem walls, exterior insulated finishing system and metal. The concrete masonry units selected are both standards and split face units, various coursing and face finish. Concrete masonry units were selected for the exterior wall material based on advantages for durability/longevity, ease and maintenance, load bearing capability and lower construction costs.

Rosemont High School was designed with state-of-the-art educational technology integrated throughout the campus. The classroom houses were designed around a technology center with wired and wireless Internet access for laptop carts and student/teacher workstations. Technology centers include audio/visual systems for large and small group presentations. Wireless access is provided in the library/media center, small auditorium and other student commons areas. The science lab houses include data, voice and video systems that support a cutting-edge science

and technology curriculum. Rosemont is truly a 21<sup>st</sup> Century school that prepares students to utilize information technology in their chosen careers.

**ARCHITECT:**  
**DLR Group**  
1931 H Street  
Sacramento, CA 95814

Ralph E. Vitiello, AIA  
*Principal in Charge*

Brian P. Meyers  
*Project Manager*

Jesse J. Williams, AIA  
*Project Architect*

John Blackwell, AIA  
Christopher L. Brown, AIA  
*Project Designers*

**STRUCTURAL ENGINEER:**  
Buehler & Buehler Associates

**GENERAL CONTRACTOR:**  
Brown Construction

**MASONRY CONTRACTOR:**  
O'Neal Masonry Partners

**BLOCK PRODUCER:**  
Blocklite

**OWNER:**  
Sacramento City Unified School District



Photography: Steve Whittaker

**C M U**

# Profiles in Architecture



## ORANGE COUNTY FIRE AUTHORITY REGIONAL TRAINING FACILITY IRVINE, CALIFORNIA

The design of the new 200,000 square foot Orange County Fire Authority – Regional Operations and Training Center in Irvine, California, has been conceived as an integral part of the residential community in which it is sited. The scale of the buildings is low - no more than two stories.

The materials used in its exterior are similar in color and texture to the surrounding homes and the architectural forms recall that of early California architecture. CMU was chosen for the skin of the entire complex, because it accomplishes several project goals. It is durable, available in colors that match the surrounding building context, and comes in several textures that reinforce the formal structure of the design. The CMU perimeter walls are also load bearing, which accomplished the goal of structural and material efficiency. The skin is the structure eliminating the need for exterior cladding of any sort. In the more utilitarian areas of the project the CMU is left exposed on the interior.

To complete the envelope, high performance glazing in powder coated aluminum frames are used in the window openings. The buildings are set back from the street and the adjacent residences to buffer the project visually and acoustically. Functional requirements of the program have driven the formal responses of the architecture, allowing efficiency and versatility in the plan. This is essential in achieving a project that will serve the county for decades to come. This project symbolizes the civic relationship between the participating municipalities of the Orange County Fire Authority.

**ARCHITECT:**  
**HOK Architects**  
9530 Jefferson Blvd.  
Culver City, CA 90232

John Conley, AIA  
*Principal in Charge*

Ernest Cirangle, AIA, LEED®AP  
*Director of Design*

Tom Nelson, AIA, LEED®AP  
Dave Hollister, AIA, LEED®AP  
Clay Pendergrast, AIA, LEED®AP  
Pam Light, FIIDA, LEED®AP  
Brian Cook  
*Project Team*

**STRUCTURAL ENGINEER:**  
Nabih Youssef

**GENERAL CONTRACTOR:**  
S. J. Amoroso Construction

**MASONRY CONTRACTOR:**  
Kretschmar & Smith, Inc.

**BLOCK PRODUCER:**  
ORCO Block Company, Inc.

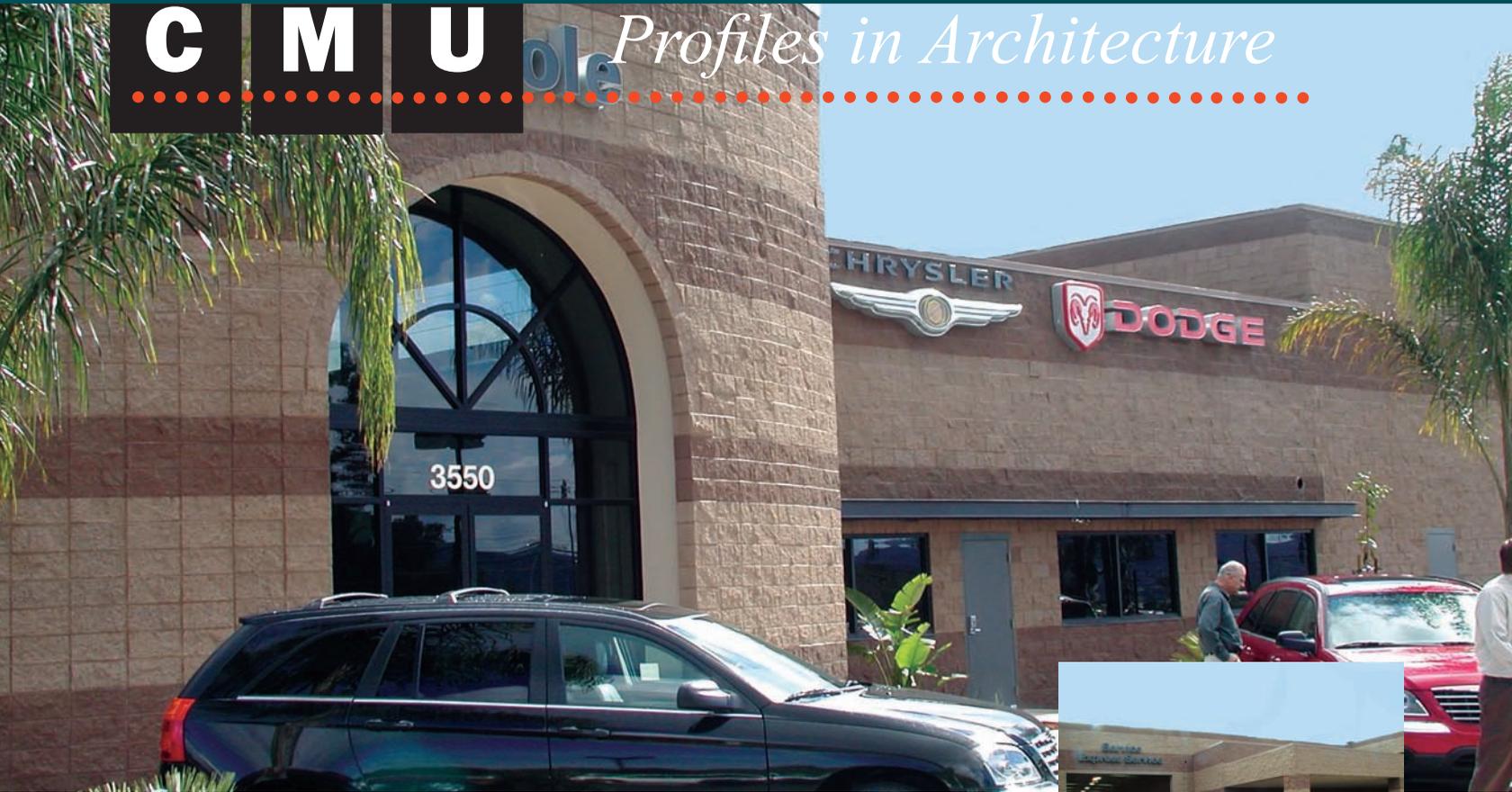
**OWNER:**  
Orange County Fire Authority



Photography: Ron Eggers

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*Profiles in Architecture*



## COLE CHRYSLER DODGE

SAN LUIS OBISPO, CALIFORNIA

With a history of three generations in the automobile business in San Luis Obispo, California, the Cole Family desired to expand their business and improve the sales and service experience for its customers and employees through the creation of a new high quality dealership that would stand out from its local competitors. Located on five acres along a major arterial at the southern edge of the city, the new Cole Chrysler Dodge features a day lighted atrium with a café, along with a 24 bay service facility, one of the largest on the Central California Coast.

Split face and precision face concrete block in two colors were chosen to create an enhanced appearance and durable finish for both the public sales and technical service areas of the building. The architect, Steve Kay of Design Build Management, who specializes in the design of automotive facilities, used the concrete block to integrate the interior and exterior of the building. Exposed concrete block, with exterior storefronts, tile and landscaping are used inside the building to join the interior customer areas to the landscaped and tiled exterior vehicle display plaza.

The building interior colors, finishes and furnishings complement the warm colors chosen for the concrete masonry. Wood furniture with fabric upholstery, interior plants and a water fountain create a hospitality environment more comparable to a hotel than the typical car dealership.

An unusual feature of the building is the two arched entry forms, which are curved in both plan and section. The architect made a computer model of the arch using scaled block components and the mason skillfully placed

the blocks and concrete precast keystone to form a true compression concrete block arch without the use of a steel lintel.

**ARCHITECT:**  
**Design Build Management**  
 18303 Fitzpatrick Lane  
 Occidental, California 95465

Stephen Kay  
*Architect of Record*  
*Design Architect*

**STRUCTURAL ENGINEER:**  
 KMN Structural Engineering, Inc.

**GENERAL CONTRACTOR:**  
 Rarig Construction

**MASONRY CONTRACTOR:**  
 Nathaniel Masonry

**BLOCK PRODUCER:**  
 Air Vol Block, Inc.

**OWNER:**  
 Jeffrey Cole



Photography: Erick Geil, Air Vol Block, Inc.

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*Profiles in Architecture*



Photography: Whittaker Photography  
Doug Braun, Calstone Company

**TED AND RAND SCHAAL AQUATICS COMPLEX  
UNIVERSITY OF CALIFORNIA, DAVIS**

**DAVIS, CALIFORNIA**

The Schaal Aquatics Complex helps define a new plaza at the arrival point for the west side of the UC Davis campus. The first phase of the complex consists of the locker and shower rooms, restrooms, pool equipment room, and the pool. The pool is used as a venue for men's and women's competitive swimming, diving, and water polo. A second, future phase is planned to house the front office, coaching offices, team room, and an entry canopy. The two buildings, together with landscaped berms, are arranged to buffer the pool area from wind, noise, and views of the adjacent street.

Concrete masonry block was chosen for its aesthetic look and feel, durability, and ability to stand up to moisture and pool chemicals. Walls facing the pool area are precision block, and walls of burnished block with glass block insets face the exterior of the complex. The building spaces are either not conditioned or provided with fan coil heating units for the coldest months, so the block also provides thermal mass to help keep the buildings cool in summer and warm in winter.

Skylights in the shower rooms and translucent clerestory windows in the locker rooms provide natural daylight. Two long west facing walls of burnished concrete block provide privacy for the locker and shower rooms and protection from the afternoon sun. Obscure glass blocks interspersed with the concrete block let pockets of light into these spaces.

**ARCHITECT:**  
**Carrier Johnson**  
275 B McCormick Avenue  
Costa Mesa, CA 92626

John Beck  
*Design Architect*

**STRUCTURAL ENGINEER:**  
BFL Owen

**POOL CONSULTANT:**  
Aquatics Design Group

**GENERAL CONTRACTOR:**  
Brown Construction

**MASONRY CONTRACTOR:**  
G. L. Mertz

**BLOCK PRODUCER:**  
Calstone Company

**OWNER:**  
University of California, Davis

**C M U***Profiles in Architecture***HOMESTEAD HIGH SCHOOL NEW LIBRARY**

CUPERTINO, CALIFORNIA

The design team's challenge was to add a new library to an existing high school campus. The building had to fit within the last available site on the campus: a site that was bordered by buildings on three sides, a noisy vehicular drop-off area and main street, and a large heritage oak tree in the center. The site administrators felt that it was important that the new library not block views of the heritage oak tree from the street, yet provide a quiet and elegant solution to a difficult site.

Along the street side, the building takes cues from the existing masonry buildings. The masonry walls maintain the scale and fenestration pattern of the street elevations of the existing buildings, while glimpses of a clerestory window and suspended overhang suggest something very different beyond. The triangular geometry of the plan creates a controlled entrance from the street that opens and expands outward into a new courtyard space revealing the heritage oak tree. From the street, the height of the building allows views to oak tree beyond.

The building diagram is an L-shape concrete masonry structure, with a diagonal steel and glass wall connecting the two concrete masonry "legs". The concrete masonry protects a quiet book stacks area and related facilities, while the light steel and glass space enclose the main reading room. The window wall allows uninterrupted views to the oak tree and courtyard, as well as allowing natural light to penetrate the depth of the building. Various shading devices filter the natural light and control heat gain. Casual seating areas are placed along the window wall.

The resulting design is the successful blend of concrete

masonry construction that protects the library from the noisy street, integrates with the existing masonry buildings and respects a very important and beautiful heritage oak tree.

**ARCHITECT:**  
**Deems Lewis McKinley**  
12 Gough Street  
San Francisco, CA 94103

Erwin F. Lee, AIA  
*Principal*

**STRUCTURAL ENGINEER:**  
Deems Lewis McKinley

**GENERAL CONTRACTOR:**  
Zolman Construction and Development

**MASONRY CONTRACTOR:**  
John Jackson Masonry

**BLOCK PRODUCER:**  
Basalite Concrete Building Products

**OWNER:**  
Fremont Union High School District



Photography: Michael Bruk Photography

**C M U**

*Profiles in Architecture*



## ISLAMIC INSTITUTE OF ORANGE COUNTY

ANAHEIM, CALIFORNIA

The Islamic Institute of Orange County is a community center and school serving the Islamic Community from Anaheim and Central Orange County. The Center is approximately 30,000 square feet, and concrete masonry block was chosen as the most economical method of construction. It is also aesthetically reminiscent of the stone buildings that dominate the Middle East.

FTR International was responsible for the design and construction of the Center, located on State College Boulevard near the 91 Freeway. The design incorporates extensive use of concrete masonry units with bands of smooth and split face block alternately striping the elevation, giving the design a Middle Eastern architectural influence. The base stones are both split face and scored, emphasizing the horizontal design. The window bays are cantilevered through the elevation, flooding the interior spaces with light. The building also includes a complete commercial kitchen used by both the school and community center.

**ARCHITECT:**

**Steven Phillips Architect, AIA**  
23187 La Cadena Drive, Suite 101  
Laguna Hills, CA 92653

Steven Phillips Architect, AIA  
*Principal*

Tim Caballero  
*Director of Design*

**STRUCTURAL ENGINEER:**  
D.M.K. Engineering

**GENERAL CONTRACTOR:**  
FTR International

**MASONRY CONTRACTOR:**  
FTR International

**BLOCK PRODUCER:**  
Angelus Block Company, Inc.

**OWNER:**  
Islamic Institute of Orange County



Photography: Richard Carey, Angelus Block Company, Inc. BlockCompany



**BROWN ADDITION**  
SAN DIEGO, CALIFORNIA

This project is a 1,000 square foot addition housing a new kitchen, master suite, and painting studio. The austerity of the existing 1920's Spanish home, with its simple geometry and very light detailing, has a counterpart in the newly created masonry adjacent to it.

The concrete block is ground, giving a rich surface to this most basic of materials. The beautiful block is exposed on the inside as well. The architect worked with the local block manufacturer to custom spec the color of the aggregate prior to the grinding of the block faces. The doors and windows are Jarrah, a species of eucalyptus. Likewise, the kitchen cabinets are eucalyptus plywood. The flooring is reclaimed bowling alley wood (clear yellow pine) rescued from the demolished Aztec Bowl in North Park.

When the plans for the addition were chalked out on the ground, it was discovered that four dwarf citrus trees lie just outside of the new walls – and too close to survive for long. It was decided to relocate them vertically so that they appeared to merely float up the walls of the new structure and become affixed. The trees were simply levitated upward and attached. Hot-dipped brackets were fixed to the sturdy masonry walls of the addition to hold the wooded pots in place. There is poetry in the lifting and maintaining of the trees.

**ARCHITECT:**  
**Public**  
4441 Park Blvd.  
San Diego, CA 92116

James Brown  
*Principal*

**STRUCTURAL ENGINEER:**  
Envision Engineering

**GENERAL CONTRACTOR:**  
James Brown

**MASONRY CONTRACTOR:**  
Masonry Unlimited

**BLOCK PRODUCER:**  
RCP Block & Brick

**OWNER:**  
Isabel Dutra and James Brown



Photography: Public



# Profiles in Architecture

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## 2005 Concrete Masonry Design Awards

April 30, 2005 last day to mail completed submittal binders

June 2-3, 2005 jury to meet in San Francisco

June 10, 2005 winners to be announced

June 10, 2005 winners submittal binders requested by CMACN for NCMA Design Awards of Excellence

July 2005 award winning issue of "CMU Profiles in Architecture" to be published

August 1, 2005 winners NCMA submittal binders due at CMACN for NCMA Design Awards of Excellence

October 14, 2005 Concrete Masonry Design Awards Banquet to celebrate the design community

The following photo was inadvertently replaced with that of another project's photo in our January 2005 Issue on the Lavonya De Jean project page. Please look for a reprint of this entire project in a future issue of "CMU Profiles in Architecture".



Photography: Steve Whittaker

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