

Concrete Masonry Association of California and Nevada

MU Profiles in Architecture

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Why Masonry? www.whymasonry.org

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Truckee Meadows Fire Protection District Station 14 TSK Architects ASA Gilmore Photography HED 225 Broadway, Suite 1300 San Diego, CA 92101

ARCHITECT:

Jennette La Quire, AIA, NCARB, LEED[®] AP *Principal-in-Charge*

STRUCTURAL ENGINEER: Wiseman + Rohy Structural Engineers Construction Manager: Balfour Beatty Construction MASONRY CONTRACTOR:

Haxton Masonry, Inc. BLOCK PRODUCER: RCP Block & Brick, Inc.

Owner: Santana High School,

Grossmont Union High School District **©Photography:**

Mike Torrey Photography

Santana High School Event Center Santee, California













ARCHITECT'S COMMENTARY: The new Santana High School Event Center and Physical Education Building replaced a former aging locker room with a state-of-the-art dual function facility. The new 21,200-gross-square-foot building provides Santana High School a space for campus events, performances, conferences, and physical education activities in a single location, making it a hub of community interaction on campus.

The building brings together the performing arts and physical education programs and clubs under one roof, connecting two typically separate student and faculty groups. This connection is further developed through the

Hall of Fame, which physically connects the event center and gymnasium and displays the school's athletic and performing awards, alumni achievements, memorabilia, and banners in a celebration of shared school identity. In addition to showcasing the school's rich heritage, the Hall of Fame area acts as a meeting space during events and receiving area for guests and community members. In total the facility includes locker rooms, coaches' offices, sports team rooms, restrooms and showers, wrestling rooms, a dance room, trainer's room, and multi-use event space with telescoping theater seating.

WHY MASONRY? The design, which was envisioned to include safety, energy, and life cycle considerations, utilizes concrete masonry unit (CMU) block throughout. CMU provides a large thermal mass, providing passive cooling that reduces energy costs, and is a low maintenance material with superior longevity. The building can withstand a high impact as well as exuberant student activity, making it both secure and durable, but not boring; it features CMU coloration and texture to accentuate the architectural building volumes and theme of interconnectivity.

Rancho Cucamonga Sports Center Rancho Cucamonga, California



ARCHITECT: Robert R. Coffee Architect + Associates

1200 Quail Street, Suite 210 Newport Beach, CA 92660

Robert Coffee Principal-in-Charge

STRUCTURAL ENGINEER:

Nelson Consulting Engineers, Inc. **GENERAL CONTRACTOR:** Tovey Shultz **MASONRY CONTRACTOR:** Nu-Way, Inc. **BLOCK PRODUCER:** Angelus Block Company, Inc. **OWNER:** City of Rancho Cucamonga **©PHOTOGRAPHY:** RMA Architectural Photography







ARCHITECT'S COMMENTARY: The Rancho Cucamonga Sports Center is a single-story 35,000-square-foot recreation facility that includes three indoor high school basketball courts, three outdoor covered basketball courts, a concession and commons area with seating for 40 people, a party and entertainment room, administrative office space and ancillary storage, and public restroom facilities.

The west side entry plaza leads directly into the major circulation space known as the Hall of Fame. This space is defined by a large floating roof that bisects the building and creates an open lightfiled gallery that includes the commons and concession area and functions as the public concourse providing access to the gymnasium, the administrative office area, and the party room.

WHY MASONRY? Visibility, constructability, sustainability, and cost were the key issues informing the design. Located at the back of a parking lot that is shared with the adjacent Quakes Stadium, the building site lacked street frontage visibility. Annual scheduling for the yearly sports programs demanded the building be built and completed in a short time frame, and the limited budget for the facility presented construction cost challenges. Additionally, the City wanted a building that could eventually be equipped with enough solar panels to provide the energy for the building operation.

Burnished concrete masonry units (CMUs) were chosen for their inherent aesthetic and sustainable properties, long term durability, cost and energy efficiency, and the opportunities they presented for texture and color in combination with the metal use. Colorful insulated metal panels were used to enclose the gymnasium and provide both a highly visible and durable exterior and interior finish, while pre-engineered metal building systems were selected to help provide a cost and time effective building solution. The two shed roof forms provide the opportunity for future solar PV installations.









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Larry Schlossberg, AIA, AICP, LEED[®] AP BD+C *Principal-in-Charge*

STRUCTURAL ENGINEER: Englekirk GENERAL CONTRACTOR: Ed Grush MASONRY CONTRACTOR: Majestic Masonry, Inc. BLOCK PRODUCER: Angelus Block Company, Inc. Owner: Yeshiva University of Los Angeles OPHOTOGRAPHY: Gruen Associates







ARCHITECT'S COMMENTARY: The Campus Completion project for the Yeshiva University of Los Angeles Boys High School is a 16,000-square-foot multi-use facility incorporating a gymnasium, classrooms, and a library which are located above underground parking for 100 cars—all organized around a landscaped central courtyard also above the subterranean parking—serving to organize the campus and forming an identity for the school community.

WHY MASONRY? The architectural conception of the project was highly centered in the courtyard's character, form, color, and material. Recalling the irregular series of modulated interconnected forms and spaces, which composes the Old City of Jerusalem, brings special meaning to the faculty, students, and community of this orthodox Jewish high school. The white coloration of the simple planes of the building and site walls creates a Mediterranean quality of light within the space. The Jerusalem stone accents, olive tree landscaping, and sense of mass emphasized by the white-textured concrete masonry units (CMUs) and smooth-troweled cement plaster, all work to support this evocative image.

The entire gymnasium mass is composed of special order CMUs, with an exposed interior and exterior that integrate enclosure, structure, and architectural imagery. The use of white-precision finish CMUs combined with a sloped-face, shadow-casting version in a modern and elegant composition, brings a visual texture to the mass, reminiscent of the ancient walls of the Old City.

The white coloration of the exterior materials and CMUs works to reflect the sun's energyreducing heat gain, and is augmented by the avoidance of southern- and western-oriented glazing. The eastern- and northern-oriented glazing strategically introduces natural light usually through high openings—to promote deep dispersal of light, significantly reducing the need for artificial lighting. This strategy includes the tall-glazed "lantern" illuminated at night, marking the gymnasium entry as a focal point of the entire campus.











ARCHITECT'S COMMENTARY: Barstow College is part of the Barstow Community College District. The Performing Arts Center project started with the development of a project proposal submitted to the California Community Colleges Chancellors Office and was approved and supported by funding from Proposition 39.

The Performing Arts Center is a two-story building of approximately 39,898 square feet, with a main theater with seating for 755 and a black box theater with seating for 153. The facility also includes an outdoor stage, scene service areas, music rooms, a dance studio, and additional assembly support service areas.

WHY MASONRY? The building's skin is composed predominately of structural red tone concrete masonry units (CMUs) selected for their natural complement to the existing red brick buildings on campus, as well as for durability, fire resistance, and reduced sound transition – all important features that CMUs provide. The horizontal banding was created using smooth faced CMUs to provide linear interruption to the large vertically comb faced wall elements, as well as bind the horizontal aluminum planes that defined the entrances. The use of aluminum storefront glazing also provided a transparent bridge of interior and exterior CMU wall features to further define its use as the predominant material on the project. In addition, the decision to use CMUs developed from its recognized sustainable attributes and environmentally friendly benefits. The project was enrolled in Southern California Edison's Savings by Design program and exceeded the mandatory Title 24 performance requirements by 10%.

ARCHITECT: AP Architects 3434 Truxtun Avenue, Suite 240 Bakersfield, CA 93301

J. Patrick Fogarty *Principal-in-Charge*

Associate Architect/Theater Consultant/Acoustician: John Sergio Fisher & Associates 5567 Reseda Boulevard, Suite 209 Tarzana, CA 91356

STRUCTURAL ENGINEER: John A. Martin & Associates GENERAL CONTRACTOR: ASR Constructors, Inc. MASONRY CONTRACTOR: ASR Constructors, Inc. BLOCK PRODUCER: ORCO Block & Hardscape Owner: Barstow Community College District ©PHOTOGRAPHY: Ciro Coelho + AP Architects





DaVita Santa Maria Dialysis Center

Santa Maria, California







ARCHITECT: TWINSTEPS architecture 15615 Alton Parkway, Suite 125 Irvine, CA 92618

Pete Morris, AIA, LEED[®] AP *Principal-in-Charge*

Arielle Colby Project Manager

STRUCTURAL ENGINEER: Grimm & Chen Structural Engineering, Inc. GENERAL CONTRACTOR: Alan Roinestad Construction & Management, Inc. MASONRY CONTRACTOR: Masonry by Darin BLOCK PRODUCER: Air Vol Block, Inc. OWNER: DaVita Kidney Care ©PHOTOGRAPHY: TWINSTEPS architecture





ARCHITECT'S COMMENTARY: DaVita Santa Maria Dialysis Center is a 10,150-squarefoot dialysis clinic located in Santa Maria, California. The 25-station clinic represents a contemporary modern architectural style with finishes and colors in keeping with the neighboring buildings located in the downtown area. The building shell is constructed of concrete masonry units (CMUs) with a steel metal deck roof.

WHY MASONRY? CMUs were the ideal building material for the DaVita Santa Maria Dialysis Center because dialysis clinics in California are required to be of non-combustible construction. The fire-resistance requirements are critical, as dialysis patients are considered to be incapable of self-preservation and the building is categorized as group I-2.1 occupancy. The open treatment floor accounted for the majority of the building footprint and needed to be free of obstructions for maximum visibility from the nurse stations. As a result, building articulation for this type of project was restricted by the type of construction and functionality of the space.

In order to break up the massing, exterior pop-outs were constructed with stucco over metal stud framing, and a stone veneer was added to provide additional texture and maintain the appearance of the neighboring buildings. CMUs served as the perfect building shell for a project that required non-combustible construction, while allowing for a finish that matched the surrounding businesses.

Truckee Meadows Fire Protection District Station 14













ARCHITECT'S COMMENTARY: Truckee Meadows Fire Protection District (TMFPD) Station 14 replaced a station that was no longer capable of serving the needs of the Department. The previous site was located in a largely undeveloped region of the southern valley. However, over the past twenty years, that location had become intensely developed with a mix of retail and distribution centers. The increase in traffic congestion affected the ability of the TMFPD to serve the residents of Washoe County, and it was determined that the station should be relocated. The move would solve two challenges: first, it would

resolve the impact that traffic congestion had on responses to emergency calls, and second, it would provide an opportunity to increase station capacity and vehicle mix.

WHY MASONRY? The new site location influenced the design approach. Whereas the existing site had been established prior to any development, the new site was in an existing neighborhood consisting of larger rural sites, with a majority of these residences including facilities for horses and livestock. The design process included numerous public reviews and input on design progress. As a result, the design incorporated concrete masonry units (CMUs) and a number of strategies essential to fit the site contextually. This included: developing the project with a series of smaller masses that incorporated forms similar to the surrounding neighborhood, a multicolor palette of CMUs that helped reinforce the breakdown in massing, orienting the facility on the site to maintain a casual relationship to the street, and using the existing slope to minimize mass and height of the facility.

The new facility incorporated these strategies into a station that serves both the needs of the TMFPD and the expectations of the surrounding community. The CMU building forms provide the durability required at a fire station along with visuals that are reminiscent of the simple functional outbuildings found throughout this neighborhood. Functionally, the station has improved response rates and increased capacity, all while utilizing CMUs that blend seamlessly into the surrounding neighborhood and landscapes.

ARCHITECT: **TSK Architects** 225 S Arlington Avenue, Suite A Reno, NV 89501

Pat Pusich Principal-in-Charge

STRUCTURAL ENGINEER:

Forbes-Linchpin Structural Engineering **GENERAL CONTRACTOR:** Core Construction **MASONRY CONTRACTOR:** XL Concrete Masonry **BLOCK PRODUCER:** Basalite Concrete Products, LLC **OWNER:** Truckee Meadows Fire Protection District

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Concrete Masonry Association of California and Nevada (CMACN)

a nonprofit professional trade association established in 1977, is committed to strengthening the masonry industry in California and Nevada by:

- Providing technical information on concrete masonry for design professionals.
- Protecting and advancing the interests of the concrete masonry industry.
- · Developing new and existing markets for concrete masonry products.
- · Coordinating Members' efforts in solving common challenges within the masonry industry.

NOTE: Some Photos may have been altered to fit the page format.