



Concrete Masonry Association of California and Nevada



Profiles in Architecture

Winter 2022

Why Masonry?
www.whymasonry.org

**Announcing
2022 CMACN/AIACA
Concrete Masonry
Design Awards Competition
"Call for Entries"**

Eligibility and requests for entry materials
available at:
www.cmacn.org

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Woodbridge High School Performing Arts Center
SVA Architects, Inc.
RMA Architectural Photography

West Covina Unified School District Sports Complex

West Covina, California



ARCHITECT: PBK

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STRUCTURAL ENGINEER:
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GENERAL CONTRACTOR:
Balfour Beatty Construction

MASONRY CONTRACTOR:
Cornerstone Masonry

BLOCK PRODUCER:
Angelus Block Company, Inc.

OWNER:
West Covina Unified
School District

©PHOTOGRAPHY:
Emil Kara Architectural Photography

ARCHITECT'S COMMENTARY: With size, capability, and facility flexibility driving the design, an Olympic-grade 25-yard by 52.5-meter pool was installed on the Edgewood Campus to replace the aging 25-meter pool. The addition of a movable bulkhead allows the pool to be split into two separate pools, thus creating space to host two team practices simultaneously. Secure locker rooms for both the home and visiting teams were also incorporated into the new facility, allowing multiple groups to have dedicated spaces during the day's use.

In addition to creating a world-class aquatic facility, a gateway for the District's athletic programs was also created. The facility serves as a hub for the track and field complex, baseball and football fields, and newly renovated basketball courts. This facility also hosts key CTE (Career Technical Education) Programs. Kinesiology, the study of the mechanics of body movement, is housed next to the pool and can utilize the facility for water-based therapy and movement studies. A weightlifting room next to the Kinesiology classroom gives athletes and students easy access to training equipment, while the front entrance brings a stunning visual landmark to the District and the community it serves.

WHY MASONRY?

Concrete masonry units (CMUs) were utilized due to their durability and ability to withstand the harsh environment proposed by an aquatic facility for decades to come. By utilizing integrally colored CMUs, the building was left exposed to highlight its natural beauty while providing splashes of parged colored plaster and sleek perforated metal panel accents. Burnished CMUs were selected for their durability as well as their softer touch on exposed skin.

Sustainable features were incorporated into the aquatic facility to offset operating costs. Heating a pool of this size takes a lot of energy, so thermal panels were installed on top of the spectator shade structures that surround the pool.



Southwest Juvenile Courthouse

Murrieta, California



ARCHITECT'S COMMENTARY: Riverside County had a need for the addition of two dedicated courtrooms for Delinquency and Dependency Courts to improve caseload management and operations. A new, stand-alone Juvenile Courthouse was funded for design and construction as an addition to their judicial campus which houses Juvenile and Adult Detention Centers, their Main Courthouse, and the Sheriff's Department.

The new building is located immediately adjacent to the Juvenile Detention Center with a secure connecting breezeway to minimize transportation costs. The

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Los Angeles, CA 90012

Windom Kimsey, President, CEO
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KPFF Consulting Engineers
GENERAL CONTRACTOR - CM
Multi-Prime:

Vanir Construction
Management, Inc.
MASONRY CONTRACTOR:
KAR Construction Inc.

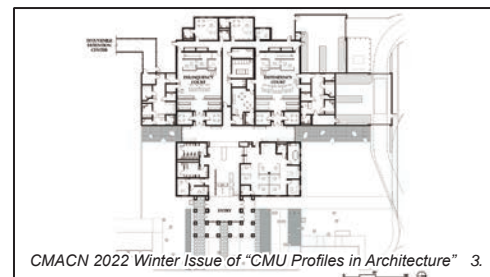
BLOCK PRODUCER:
ORCO Block & Hardscape

OWNER:
Riverside County Economic
Development Agency
©PHOTOGRAPHY:
TSK Architects

facility's location on the southern edge of the campus, on top of a low hill, and near the main road, establishes an appropriate stature for this one-story Courthouse in relation to the Main Courthouse.

WHY MASONRY? Courthouses are designed to have a 50 year life-span due to the civic nature of their purpose and the impediments to funding new construction. Decorative concrete masonry unit (CMU) block was deliberately recommended to and ultimately selected by the client, in part due to the long-lasting and durable qualities it offers. It proved to be a very cost-effective material choice to also render the visual aesthetic and connotations of permanence and stability – paramount to the impression of Law and Order as represented by the Courts.

The use of split-face for the primary CMU provided texture to the surface of the building with datum lines of honed CMU to accent and imbue subtle variation in reference to more traditional architectural styles of classic courthouse design. The courthouse plan is conceptually broken in two main parts: the front facing entry and administrative program, along with the courtrooms and judicial support program behind. The two areas are encapsulated with CMU walls to distinguish their masses, while an airy waiting and lobby bookended by floor-to-ceiling and wall-to-wall glazing distinguishes the separation by accenting the void and supplying views to the landscape.



ARCHITECT:
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Jay R. Tittle, AIA
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MASONRY CONTRACTOR:
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BLOCK PRODUCER:
ORCO Block & Hardscape

OWNER:
William S. Hart Union
High School District

©PHOTOGRAPHY:
Kevin Tittle Photography

Canyon High School Performing Arts Center

Santa Clarita, California



ARCHITECT'S COMMENTARY: This project was a major addition of the new Performing Arts Center and the renovation of the Music Building to the existing campus. The specific site had a significant grade change from front to rear and was also very tight side to side between existing buildings. As a teaching facility, it was important to integrate the experience perspectives of patrons, performers, and stage crew into the design consideration.

The Performing Arts Center seats 450 patrons in a multi-level 18,000-gross-square-foot building. This new building was strategically located on the edge of the campus, allowing for the public entry to face the existing parking lot and to create a pre-function forecourt outside of the lobby. Patrons purchase tickets from the prominent Ticket Booth before entering the Lobby and then the Auditorium. Both performers and stage crew enter from the rear, which backs up near the renovated Music Building. The Auditorium and performance stage is acoustically isolated, in large measure, due to the usage of concrete masonry units (CMUs) for the enclosure walls. Other spaces in the Performing Arts Center include a Black Box/Drama Lab, Dressing Rooms, Equipment Storage, a Scene Shop, and separate patron and student Restrooms.

WHY MASONRY? CMUs were the logical choice to enclose the new Performing Arts Center. Their structural supporting abilities and shear wall properties meet the criteria needed for both a large, open auditorium and smaller, enclosed rooms. CMUs also provide acoustical dampening and isolation for the performance spaces from outside noise intrusions, while furnishing the necessary physical durability required in a high school campus setting. An added benefit of utilizing CMUs was the cost effectiveness and ease of installation. These key elements are often significant to the School District's approval of teaching facility projects.

Woodbridge High School Performing Arts Center

Irvine, California



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Santa Ana, CA 92707

Robert M. Simons, AIA
**Partner-in-Charge &
Architect-of-Record**

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CONSTRUCTION MANAGER:
C.W. Driver
MASONRY CONTRACTOR:
Winegardner Masonry, Inc.
BLOCK PRODUCER:
Angelus Block Company, Inc.
OWNER:
Irvine Unified School District
©PHOTOGRAPHY:
RMA Architectural Photography



ARCHITECT'S COMMENTARY: This 31,165 square-foot project includes a 650-seat theater and features a stage with fly loft, orchestra pit, scene shop, and dressing rooms. The Black Box classroom is designed for Dance, Drama, and Visual Arts. Additionally, there are staff workrooms and collaborative teaming areas.

WHY MASONRY? With its location at a prominent corner in the Irvine community, the new Performing Arts Center at Woodbridge High School was designed to have a strong visual impact against the scale of the neighborhood. The full fly loft rises some 55 feet above the street and offered a unique opportunity to create a varied foreground to the sky and mountainous background of the campus through the use of standard precision concrete masonry units (CMUs) and projected CMUs. Performing Arts Centers require all portions of the stage to be separated from the seating area by a two-hour wall, and due to the height requirements for a stage and proscenium, CMUs were the most economical way to provide the fire rating, height, and structural integrity. It also allowed for increased wall mass to aid in optimizing the acoustics.

The exterior CMU relief design on the face of the fly loft was inspired by the images of soundwaves generated by music and the nearby Santa Ana mountains. Working with complementary colors to the existing high school campus, the abstract relief pattern was developed with the use of standard and projected CMUs. Portions of the pattern are carried throughout the exterior of the Center where the shadow patterns of the projected CMU provide depth and movement throughout the day. Clear anodized aluminum and titanium color accents, along with the use of clear glazing at the lobby area, provide the contrasts and highlights to the CMU colors.



ARCHITECT:
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Rick Marrs
Principal-in-Charge

STRUCTURAL ENGINEER:
Mako Steel

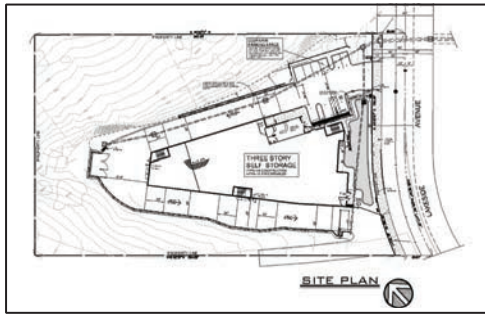
GENERAL CONTRACTOR:
DAI General Contracting

MASONRY CONTRACTOR:
Haxton Masonry Inc.

BLOCK PRODUCER:
RCP Block & Brick, Inc.

OWNER:
StaxUP Storage

©PHOTOGRAPHY:
RCP Block & Brick, Inc.



Stax Storage

Lakeside, California



ARCHITECT'S COMMENTARY: Stax Storage is located in Lakeside, California, an unincorporated community in the County of San Diego. Nestled away in the foothills, it is surrounded by several lakes with a prevalence of ranches and undulating open spaces. Continuing Lakeside's natural beauty, Stax Storage blends seamlessly into the surrounding environment with the use of concrete masonry units (CMUs), metal siding, stucco, and spandrel glazing.

The project was designed with the customer in mind. The location placement provides accessibility to both the community of Lakeside and the 67 Highway. The recessed three-story facility offers added security and ease of access with a separate drive-up entry and flat loading area for each of the three floors.

WHY MASONRY? CMUs have proven to be a durable material with endless design possibilities, providing texture, color, and interest to any project. Thus, CMUs were an ideal choice for this Self Storage in many ways, as they were capable of creating aesthetic appeal, sustainable design, and a distinctive customized look.

A principal function of CMU use in the project was to create a protective, secure, and energy efficient base for the building. By providing vertical and lateral support, CMUs also allowed for the design of the building to recess into the surrounding hillside.

Additionally, CMUs provide easy maintenance and longevity for the active day-to-day use at such a facility, making them the practical choice for the building and all of the retaining and site walls on the property. Stax Storage will remain a functioning gem of Lakeside for many years to come.

Washoe County Medical Examiner Facility

Reno, Nevada



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K. Brad Van Woert III
 Angela Bigotti
Principals-in-Charge

ARCHITECT:
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Russell McElroy, AIA, NCARB
Principal-in-Charge

STRUCTURAL ENGINEER:
 Shields Engineering, Inc.

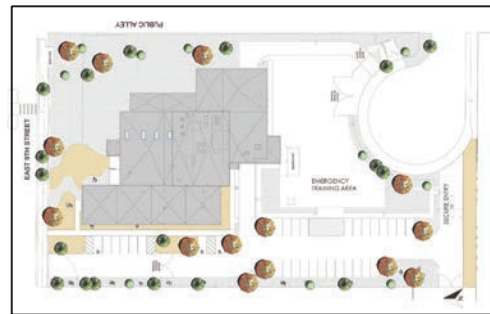
GENERAL CONTRACTOR:
 Q&D Construction

MASONRY CONTRACTOR:
 Scott Zemp Masonry

BLOCK PRODUCER:
 Basalite Concrete Products, LLC

OWNER:
 Washoe County

©PHOTOGRAPHY:
 Vance Fox Photography - Exterior
 photographs
 Jeff Dow Photography - Interior
 photographs



ARCHITECT'S COMMENTARY: After nearly 40 years in the basement of an antiquated 1950's office building, Washoe County, Nevada (Reno) gave the Medical Examiner a new home. The programmatic needs were addressed by an experienced architectural team meeting the goals of the Medical Examiner and providing a unique solution to a very complex social and administrative challenge. There were four principles:

1. Compassion: First and foremost, there would be a deep respect for the departed and their families.
2. Discretion: Total privacy was required throughout the facility on both the public and procedural side.
3. Security: The protection of the staff and forensic evidence gathered by Medical Examiners was to be a high priority.
4. Technical/Procedure: A complex and highly sophisticated mechanical and electrical system was required to meet the procedures for decedent processing.

The design solution broke the plan down into two main zones – a softer, warmer group of spaces for family counseling and refuge for staff from the stress of an intense profession and the technical side for processing, examination, and storage of decedents to meet strict federal and state laws with regards to this sensitive, but important part of government.

WHY MASONRY? Concrete masonry units (CMUs) were perfect for this project. They provided a low cost, low maintenance, and most importantly an impregnable wall system to provide the security required for such a sensitive and discreet profession. To provide texture and warmth to the building materiality, four different patterned and sized CMUs were used in two different colors. The combination of color and pattern gives what would otherwise be a windowless bunker a warm and humane feel of a building that provides a technical and secure facility with discretion in the most respectful way.





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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.