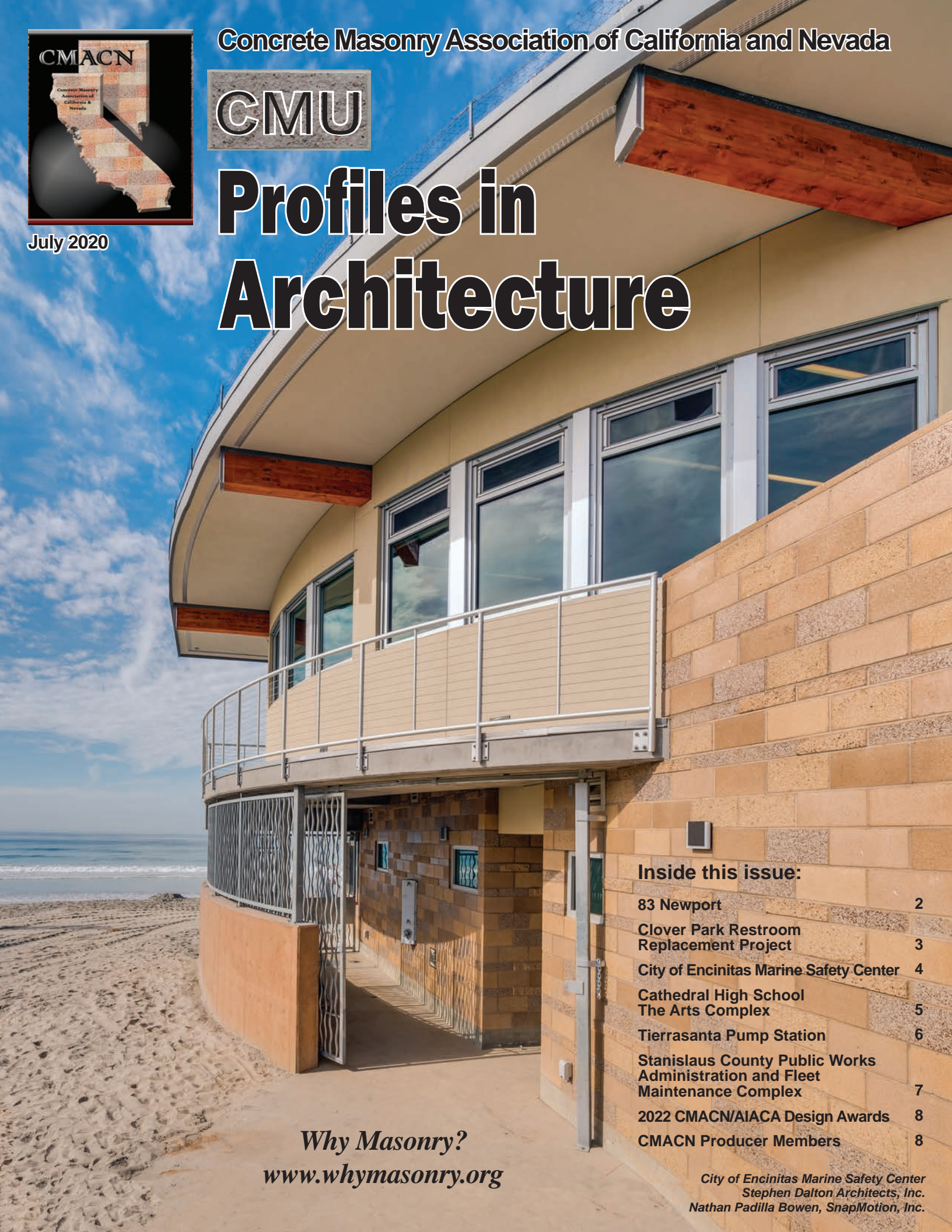
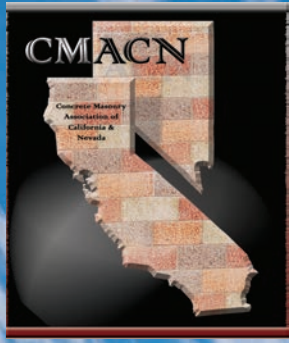


CMU

Profiles in Architecture

July 2020



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Why Masonry?
www.whymasonry.org

*City of Encinitas Marine Safety Center
Stephen Dalton Architects, Inc.
Nathan Padilla Bowen, SnapMotion, Inc.*

ARCHITECT:

MCM

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Cody McLaughlin, Architect
Principal-in-Charge

STRUCTURAL ENGINEER:

Praxis Engineering

BLOCK PRODUCER:

Air Vol Block, Inc.

OWNER:

83 Newport, LLC

©PHOTOGRAPHY:

Marcel Alain Photography

83 Newport

Grover Beach, California



ARCHITECT'S COMMENTARY: 83 Newport Avenue is a mixed-use development in Grover Beach on California's Central Coast, consisting of three residential units and 1000 square feet of commercial space. The project is approximately 1,500 feet from the Pacific Ocean, so two large roof decks that provide views of Avila Beach, Oceano Dunes, and Point Sal were included. The roof decks are intended to meet all of one's outdoor living needs, with structural engineering for spas, electrical, and plumbing for kitchens and fire pits. The galvanized steel awnings introduce another material and create architectural relief. Passive solar shading, natural light, solar panels, tankless water heaters that heat radiant concrete floors, permeable pavers, native xeriscape, and recycled paper insulation comprise some of the environmentally conscious design elements.

WHY MASONRY?

Concrete masonry units (CMUs) were selected primarily because of their inherent fire rating and prevalent use in the local vernacular of this industrial zone. The variety of shapes, sizes, colors, and textures that CMU palettes provide can easily be appreciated. There's something about stone and concrete that gives a structure a sense of permanence and longevity. Rough split face texture was used to contrast the smooth stucco. Likewise, two warm tones of CMU were selected to contrast the colder white stucco. The heavier feeling CMU of the ground floor anchors the structure and contrasts the lighter stucco of the upper floor. Often an important component of architecture is a contrast in materials, and fortunately the developer has a respect for design that allowed for some more costly elements that will preserve the beauty of the building, making it pleasurable to visually endure the structure for many years.

Clover Park Restroom Replacement

Santa Monica, California



ARCHITECT:
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Principal-in-Charge

Pleskow Architects
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Venice, CA 90292

Tony Pleskow, AIA
Principal-in-Charge

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KPFF, Consulting Engineers, Inc.
GENERAL CONTRACTOR:
CS Legacy Construction, Inc.
MASONRY CONTRACTOR:
CS Legacy Construction, Inc.
BLOCK PRODUCER:
Trenwyth Industries (an Oldcastle Company)
Angelus Block Company, Inc.
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Undine Pröhl Photography



ARCHITECT'S COMMENTARY: The Clover Park Restroom Replacement Project delivers a much-needed upgrade to a pair of restrooms in one of Santa Monica's most popular parks. The two sites created different opportunities for the design of the respective buildings. One building sits atop a small rise surrounded by trees, while the other building sits within a small plaza and anchors a small administrative building, picnic area, and playground.

WHY MASONRY? The material palette was conceived to minimize maintenance for park staff, simplicity, and durability. The design team selected glazed concrete masonry units (CMUs) for their versatility and custom color options. Glazed CMUs had a successful turn on other City projects which made them a logical choice for the Clover Park facilities.

Both buildings are exercises in geometry: the smaller building situated atop a small rise is straddled by a structural steel frame clad with perforated and solid aluminum panels. It has brightly colored concrete masonry unit enclosures that are prominently featured. The larger structure inverts that strategy. The light gray CMU exterior is contrasted by brightly-colored restroom doors and CMU interiors, and features an aluminum clad canopy floating above the glazed concrete masonry unit restroom enclosure.

The buildings were well received by park goers and the surrounding community.



City of Encinitas Marine Safety Center

Encinitas, California



ARCHITECT:
Stephen Dalton Architects, Inc.
444 S Cedros Avenue, Studio 190
Solana Beach, CA 92075

Stephen Dalton, AIA
Principal-in-Charge

STRUCTURAL ENGINEER:
HTK Structural Engineers, LLP

GENERAL CONTRACTOR:
EC Constructors, Inc.

MASONRY CONTRACTOR:
Haxton Masonry, Inc.

BLOCK PRODUCER:
ORCO Block & Hardscape

OWNER:
City of Encinitas

©PHOTOGRAPHY:
Nathan Padilla Bowen
SnapMotion, Inc.



ARCHITECT'S COMMENTARY: This two-story lifeguard headquarters is carefully crafted to enhance lifeguard operations, provide public accommodations, and withstand its coastal environment. Its sweeping second floor walls and roof lines recall rescue boats and ocean waves while also allowing ample daylight to enter the facility. Operationally, the building acts as a "tool box" for the lifeguards, with every space serving multiple functions and designed to minimize wasted space.

The new sustainable facility watches over 3.5 miles of coastline which is visited by an estimated 3.1 million people a year. This project is an aesthetically and economically significant addition to the community and has received recognition for being such. The Marine Safety Center was recently awarded Project of the Year by American Public Works Association and will continue to give back to the community for years to come.

WHY MASONRY? The design of the lifeguard headquarters takes into consideration the surrounding community and environment. Concrete masonry units (CMUs) were chosen for their durability, strength, and color. The use of durable CMUs was critical because the public building sits on the sand and is subject to potential ocean impact and salt exposure. The color and texture of the concrete masonry units were selected to seamlessly blend the building into its natural surroundings. The design of the stacked CMUs mimic the cliffs behind the building. The building also houses a public art mosaic mural, created by hundreds of local community members. The surrounding buildings (restrooms, concessions, and detached lifeguard garage) were designed by the same architect, creating a cohesive campus feel and giving this popular beach an identity that locals and visitors can relate to for years to come.



Cathedral High School The Arts Complex

Los Angeles, California



ARCHITECT'S COMMENTARY: The Arts Complex provides a state-of-the-art theater and classroom building for students to explore and experience creativity through fine arts, music, theater production, and television broadcasting.

At approximately 14,000 square feet, the theater consists of a lobby, concessions, public restrooms, and an auditorium seating 355 guests. The "back of house" consists of boys' and girls' dressing

rooms and a scene shop. Different from traditional proscenium theaters where the stage is separated from the auditorium by an architectural frame, this theater is designed in a semi-circular shape with a thrust stage. Rather than being enclosed, the stage "thrusts" out into the auditorium providing an engaging, intimate setting for the spectators at every angle. The architectural ceiling is conceptualized to be cloud like with circular breaks that descend in two parts and act as a cover/opening at the catwalk lighting and tension grid. The ceiling follows the semi-circular shape of the theater and is designed to acoustically disperse sound evenly. The theater is constructed of split-face and precision block with the east and west walls of sine block (a curvilinear specialty block constructed in a basket weave layout). The theater exterior features two vertical "light cannons" with varieties of color that illuminate when an event is in progress during the evening.

The two-story classroom building, at approximately 25,000 square feet, is constructed of precision block and split-face concrete masonry units (CMUs). The classroom building main entrance is located on the second floor with the first floor being a parking garage. The classroom building houses a band room, separate practice rooms, ceramics/sculpting classroom, makerspace, drama room, and a fully equipped television broadcasting studio for students to experience and discover new talents or skills. The tile flooring has a playful serpentine pattern to create interest in the interior corridors. Classrooms located on the south elevation are exposed to a panoramic view of Los Angeles State Historic Park and the Downtown Los Angeles skyline.

WHY MASONRY? Students, especially in high school, are famously hard on wall surfaces. CMUs were selected for their durability to withstand years of abuse. Sine-block CMUs were selected specifically for the theater's east and west walls for sound reflectance.

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Newport Beach, CA 92660

James Paul Darling
Principal-in-Charge

STRUCTURAL ENGINEER:
STB Structural Engineers, Inc.

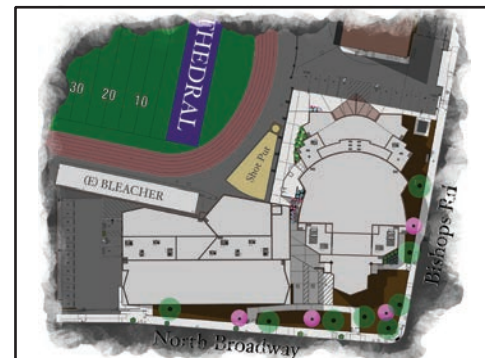
GENERAL CONTRACTOR:
Bayley Construction

MASONRY CONTRACTOR:
Masonry Constructors, Inc.

BLOCK PRODUCER:
Angelus Block Company, Inc.

OWNER:
Cathedral High School

PHOTOGRAPHY:
Erik Lieu, JP Darling
Associates/Architects



ARCHITECT:
Matalon Architecture and Planning
888 Prospect Street, Suite 200
La Jolla, CA 92037

Michael Matalon, LEED® AP
Principal-in-Charge

Cliff Smith
Project Architect

CIVIL ENGINEER:

Brown and Caldwell

STRUCTURAL ENGINEER:

AARK Engineering, Inc.

GENERAL CONTRACTOR:

J.F. Shea Construction, Inc.

MASONRY CONTRACTOR:

Haxton Masonry, Inc.

BLOCK PRODUCER:

RCP Block & Brick, Inc.

OWNER:

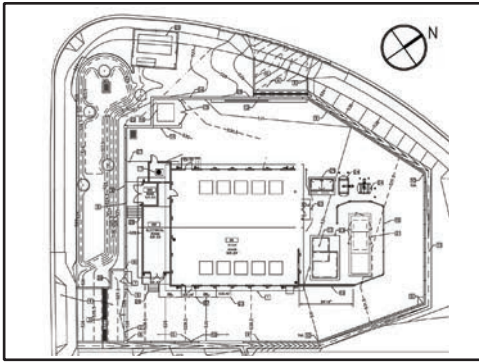
The City of San Diego
Public Works Department

©PHOTOGRAPHY:

Pamela Martin, RCP Block & Brick, Inc.

Tierrasanta Pump Station

San Diego, California



ARCHITECT'S COMMENTARY: The City of San Diego's new Tierrasanta Pump Station is located along a major boulevard which segways into several residential neighborhoods. This specific site is at the entryway to one of these communities. Therefore, the major architectural challenge for this project was to design a large industrial structure in a way that would be compatible with the smaller pedestrian feel of the nearby homes.



Through the use of earth tone masonry with residentially-scaled detailing, development of multiple shadow lines, and creating two separate levels of concrete shake gable roofing, we were able to break down the structure's apparent mass. Adding ample glass block "windows" helped to break down the vertical planes and allude to a more residential scale.

The surrounding site walls, along with several large retaining walls were designed with the same concrete masonry units (CMUs) and detailing to fit into the more residential character of the site.

WHY MASONRY? Durability, acoustical control, and long-term maintenance are key factors in selecting materials for a pump station. CMUs are the natural choice for these considerations, as well as their energy efficient characteristics for such a project. Also, the glass block windows could be installed in the same modular manner as the CMUs, and be installed by the same trade. We were able to specify just one color for the CMUs. By integrating different sizes and shapes of the same CMUs throughout the exterior pallet, we were able to create the previously-mentioned residentially-scaled details and shadow lines in an extremely cost-efficient manner.



Stanislaus County Public Works Administration and Fleet Maintenance Complex

Ceres, California



ARCHITECT:
LDA Partners, Inc.
222 Central Court
Stockton, CA 95204

Eric Wohle, AIA, LEED® AP, Partner
Architect of Record

Peter Rosado, AIA, LEED®
Green Associate
Project Architect

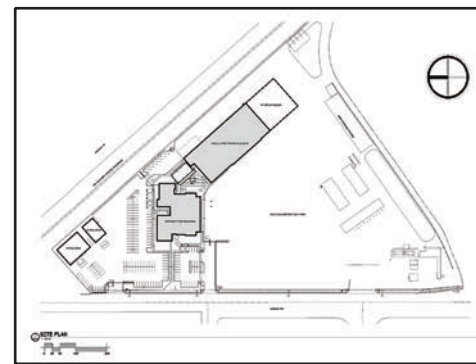
STRUCTURAL ENGINEER:
JH Lawder, Inc.

GENERAL CONTRACTOR:
Diede Construction, Inc.

MASONRY CONTRACTOR:
Dorfmeier Masonry, Inc.

BLOCK PRODUCER:
Basalite Concrete Products, LLC

OWNER:
County of Stanislaus
Department of Public Works
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Dale Goff, Goff Photography



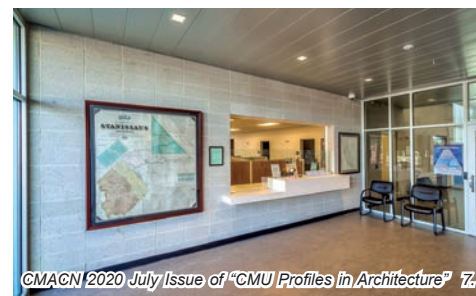
ARCHITECT'S COMMENTARY: The new building complex is the focal point of the County's Public Works Corporation yard. Architecturally and programmatically the facility can be broken down into two main program elements: a 19,000 square foot Administration Building and a 30,000 square foot Fleet Maintenance Building, both of which are joined together by a common plaza. The Administration Building houses several divisions within Public Works, including administration, GIS, and engineering, while the Maintenance Building serves as the primary repair facility for the County's vehicular fleet.



WHY MASONRY? Due to their extreme durability, ease of maintenance, and their ability to respond to the overall public works yard context, concrete masonry units (CMUs) were a natural choice as one of the facility's primary building materials. Utilizing a simple stacked bond pattern using ground faced units, the CMUs serve as a solid and sturdy backdrop for the additional layered industrial materials. The result is a look of a solid mass providing visual interest that also anchors the overall complex.

An outdoor plaza connects the two buildings. The plaza can accommodate the entire Public Works department staff and is used for quarterly department meetings as well as regional public works functions. CMUs were used within this plaza to create sound separation walls from the fast-moving freeway traffic to the east. At the Maintenance Building, CMUs were chosen to wrap the pre-engineered metal building for both its aesthetic composition and extreme durability.

The use of concrete masonry units were also a logical choice to help with the interior systems. The large mass of CMUs help to provide a thermal lag to mitigate the effects of the hot Central Valley sun. Furthermore, the "vault" which houses records and maps from the initial incorporation of the county is entirely constructed of CMUs due to their fire resistance.





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