

United States Air Force



design awards program

1999



Over the last twenty-four years, the USAF Design Awards Program has served as an important instrument we use to recognize the mingled talents and pride of many design professionals. While this recognition is very important, the program has fostered the Air Force's reputation for quality facilities and installations.

We expect quality design for all of our installations and facilities, and this year's winning entries exemplify the level of quality we seek. We must be good administrators of our resources, and these projects indicate that we are focusing on quality at all phases of the design process. Of particular note this year is the emphasis we have placed on "sustainability". Our facilities must not only be constructed on-time and within budget, they must embrace the concepts of energy efficiency, resource conservation, and the use of recycled materials. Additionally, they must provide a healthy working and living environment while offering durability and flexibility in use. We consider our installations as more than just facilities and infrastructure - they must form well planned communities reflecting the Air Force's professional image, while respecting the environment, and serving the functions for which they were designed.

This brochure is a essential tool we use to declare our principles of excellence, and I challenge the Air Force team to exercise their highest professional standards and capitalize on the accomplishments of these award-winning projects by capturing the cooperative spirit that led to their selection.

A handwritten signature in black ink, which reads "Eugene A. Lupia". The signature is fluid and cursive, with the first name being the most prominent.

Eugene A. Lupia
Major General, USAF
The Civil Engineer

This Annual Report marks the twenty-fourth year of the United States Air Force Design Awards Program that was established in 1976 to recognize and promote design excellence. The Air Force sets no limits on the number or type of projects that can compete each year. There are seven project award categories. These include Planning Studies and Design Guides, Housing Community Plans, Concept Design, Interior Design, Landscape Design, Facility Design, and Military Family Housing.

For each year's competition, an effort is made to secure jurors of the highest professional standards, blending progressive professionals who are knowledgeable of design trends in the private sector with exceptional design professionals currently in government service who understand military terminology and design standards. This year, the Planning and Urban Design and Housing Community Plan submittals were reviewed by a jury composed of a private sector landscape architect, a private sector community planner, and an Air Force landscape architect. Two members of the International Interior Design Association reviewed Interior Design submittals. The Architectural/Engineering jury composed of a private sector architect, a professional engineer, and two Air Force architects reviewed all other categories.

With the selection of this year's award winning projects, the Air Force has honored one hundred thirty-four completed facilities, one hundred concept projects, forty-six planning and landscape design projects, and forty-one interior design projects since the program began.

The United States Air Force Design Awards Program is a viable and important program that has become institutionalized within the Air Force. It is widely recognized throughout the federal government and is supported by the enthusiastic participation of notable professionals in the private sector.

HONOR AWARD / INTERIOR DESIGN

YOUTH CENTER

Vandenberg Air Force Base, California

**SQUADRON OPERATIONS/AIRCRAFT
MAINTENANCE UNIT**

Grand Forks Air Force Base, North Dakota

HONOR AWARD / FACILITY DESIGN

KC-10 MAINTENANCE HANGAR COMPLEX

McGuire Air Force Base, New Jersey

DANNELLY FIELD FIRE STATION

Alabama Air National Guard, Montgomery, Alabama

HONOR AWARD / MILITARY FAMILY HOUSING

JUNIOR ENLISTED HOUSING

Vandenberg Air Force Base, California

MERIT AWARD / PLANNING STUDIES AND DESIGN GUIDES

MARINA DEVELOPMENT PLAN

Hurlburt Field, Florida

DESIGN COMPATIBILITY STANDARDS

Davis-Monthan Air Force Base, Arizona

MERIT AWARD / CONCEPT DESIGN

OPERATIONAL SUPPORT FACILITY

Schriever Air Force Base, Colorado

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BUILDING 120 COURTROOM RENOVATION

Los Angeles Air Force Base, California

MERIT AWARD / FACILITY DESIGN

EMERALD CITY COMMUNITY CENTER

McConnell Air Force Base, Kansas

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CITATION AWARD / PLANNING STUDIES AND DESIGN GUIDES

**MAKE IT BETTER, PACAF FACILITY
EXCELLENCE GUIDE**

Pacific Air Forces

MASTER PLAN, NEVADA AIR NATIONAL GUARD

Reno/Tahoe International Airport, Nevada

CITATION AWARD / CONCEPT DESIGN

COMMUNITY CENTER

Yokota Air Base, Japan

DORMITORY RENOVATION

Wright-Patterson Air Force Base, Ohio

CITATION AWARD / INTERIOR DESIGN

HANGAR R&D INTERIOR RENOVATION

Cape Canaveral Air Force Station, Florida

CITATION AWARD / FACILITY DESIGN

GOLF COURSE CLUBHOUSE

Vandenberg Air Force Base, California

MOBILE TAIL ENCLOSURES

Robins Air Force Base, Georgia



YOUTH CENTER

Vandenberg Air Force Base, California

Design:

Grillias-Pirc-Rosier-Alves, Irvine, California

Command:

Air Force Space Command

Design Agent:

Air Force Center for Environmental Excellence

Base Engineer:

30th Civil Engineer Squadron



Convenient to base housing, this facility provides a variety of educational and recreational programs for youth of all ages, with a primary focus on the Before and After School Program. The design meets its goal of providing a symbol of security, permanence and flexibility to a wide range of age groups and interests while offering a fun, stimulating, atmosphere. A full range of indoor and outdoor activity centers are provided, each with unique age-oriented activities. These centers can be subdivided based on the current need, and several non-committed rooms offer flexible space and maximized utilization for a wide variety of programs and events. The interior color and design palette successfully blends a variety of textures, forms and colors, with accents executed in primary hues, creating a stimulating visual and tactile environment. A whimsical touch is added by mirroring the playful lines of the linoleum flooring in the profile of soffits above. Unobtrusive security is accomplished through closed-circuit television and glazed observation openings. This exemplary facility serves as both the visual and social anchor for the housing community. It fully demonstrates the Air Force's commitment to maintaining the highest quality of life for its members and their families.

JUROR'S COMMENTS:

Addresses today's youth activities - Playstations, game tables - wonderful use of color and detailing of finishes.

Shapes and geometry lend to sense of fun.

Selection of finish materials are attractive and practical.

Exceptional interior architecture throughout.





SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT

Grand Forks Air Force Base, North Dakota

Design:

Kansas City District US Army Corps of Engineers

Command:

Air Mobility Command

Base Engineer:

319th Civil Engineer Squadron

JUROR'S COMMENTS:

Nice contrast of colors and textures.

Administrative space appears attractive as well as very functional.

Handsome detailing and articulation of space.

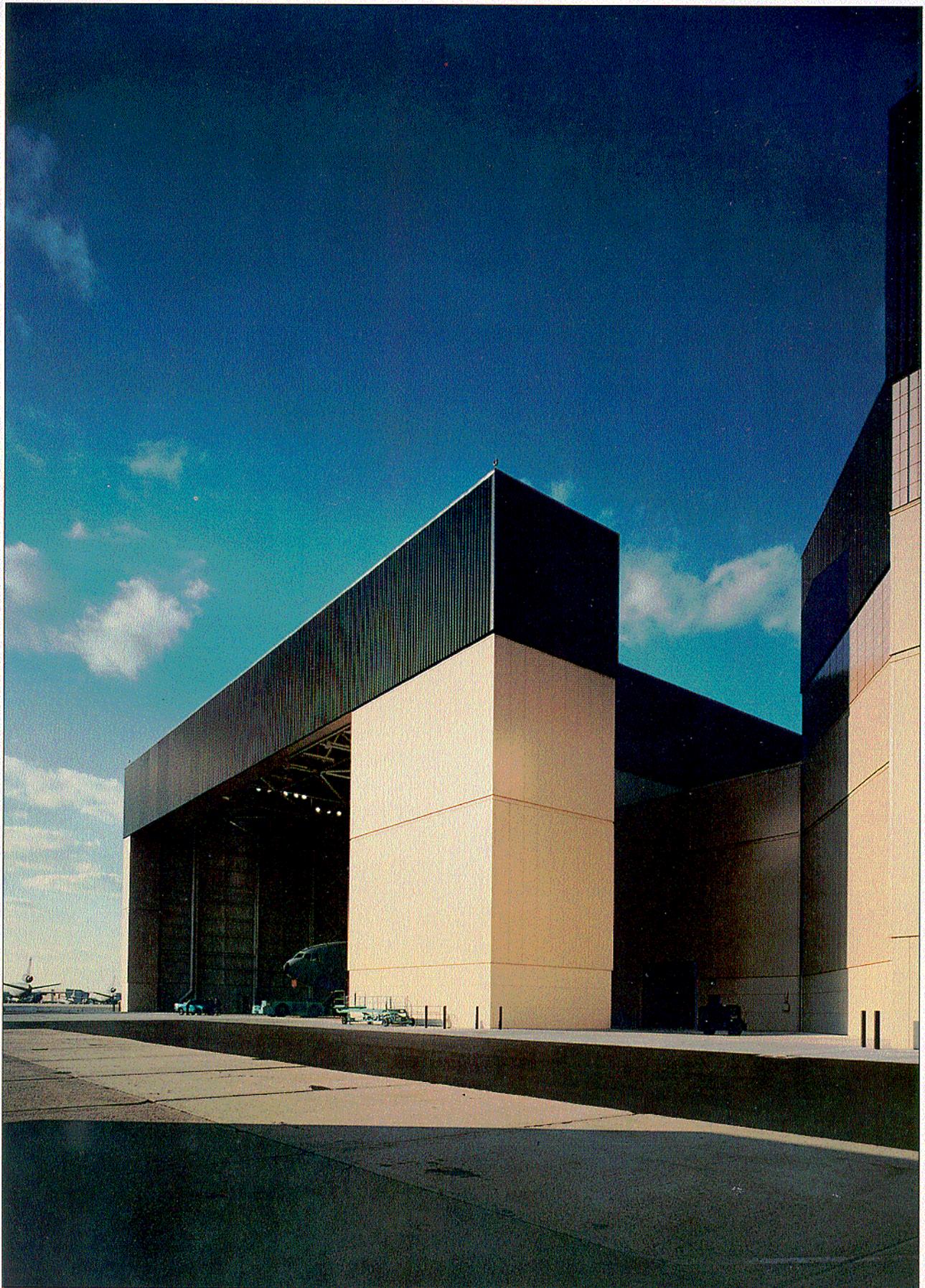
Use of finish materials reflects durability, sustainability and professionalism.

Furniture plan reflects well in final product.



As one of the first facilities to embrace the new concept of consolidating flight operations and aircraft maintenance activities, this building increases communication and coordination through efficient space planning and an interior design theme conducive to professionalism. The diverse office and maintenance operations are successfully meshed by carefully integrating space planning, interior architecture, interior finishes, furniture, and equipment. Maintenance operations were consolidated on the first floor providing direct access for receiving and disseminating aircraft parts, tools, and supplies. Common spaces, such as locker rooms, break rooms and a fitness center were also located on the first floor for convenient access. Flight operations and the command suite are located on the upper level. The interior design scheme not only offers a unique, professional appearance, but also de-emphasizes the industrial "flightline" appearance prevalent in similar facilities. The application of consistent architectural details and finishes throughout the facility promotes a unified, coordinated environment. The result is a user-friendly facility which can be easily maintained and has durable materials which will retain their fresh, new appearance for years to come. The non-industrial interior promotes professionalism, increased productivity, mission capability, and pride of ownership.







KC-10 MAINTENANCE HANGAR COMPLEX

McGuire Air Force Base, New Jersey

Design:

Frankfurt-Short-Bruza Associates, P.C., Oklahoma City, Oklahoma

Command:

Air Mobility Command

Design Agent:

New York District US Army Corps of Engineers

Base Engineer:

305th Civil Engineer Squadron

As one of the largest hangar complexes in the Air Force inventory, this innovative aircraft maintenance facility consolidates three 102 foot tall hangar bays around a central shop, support, and warehouse core. Originally envisioned as three separate construction projects, these bays provide aircraft maintenance, corrosion control, and fuel cell maintenance, respectively. The close relationship of these three functional areas provides easy aircraft access and allows for the centralization of support systems such as breathing air, fire protection, compressed air, emergency power and aircraft wash. As a new focal point for the base, the architectural form reflects the aircraft maintenance and support functions that occur within. While remaining distinctive, the use of color bands and subtle changes in texture complies fully with the base's architectural theme. The intentional use of exterior materials lacking any recognizable scale works well to diminish the apparent size of the facility. The building's design merit goes well beyond plan organization and aesthetics. The consolidation of hangar activities produced significant savings in the total building footprint, and a twenty-one percent reduction in the building's energy budget was partially achieved through consolidation of air-conditioned spaces within the building interior, providing vestibules between conditioned and non-conditioned spaces, and minimizing exterior glazing while providing natural daylighting through translucent insulated panels. Another energy-saving feature is the interconnection of the hangar heating systems with the hangar doors so they will be deactivated when the doors are open.

JUROR'S COMMENTS:

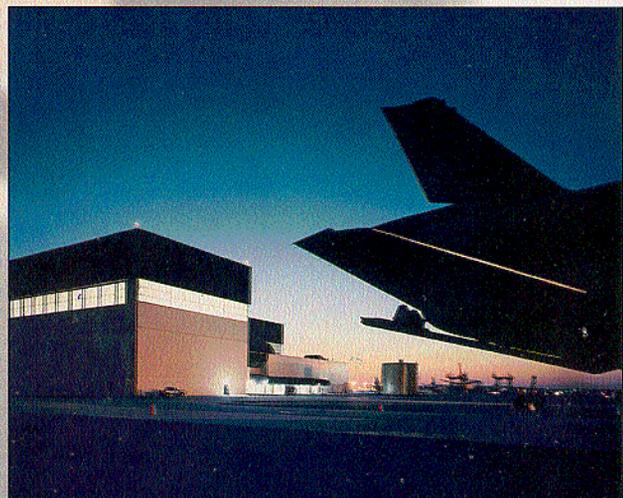
A strikingly handsome and beautifully detailed and scaled building.

Excellent floor plan addressing two separate functions.

The façade treatment belies the enormous scale of the building, as do the materials, colors and surface patterns.

The curved surfaces soften the overall effect.

The plan is extremely efficient and well organized.







Simple in its basic concept, the functional elements that comprise this flightline fire station are clearly expressed. Due to its straight-forward form and transparency, its purpose is readily identifiable. The Apparatus Room is a high-bay clear span structure with a barrel vault roof, while a one-story wing houses administrative offices, operation areas and bunk rooms. A skylit circulation spine facilitates the transition between these two major functional areas while providing natural daylighting of both the support wing and the high-bay area. The facility projects functionality while being fully compatible with other facilities on the Air National Guard Base. This is an excellent example of well-integrated design. Equal attention is given to exterior aesthetics, massing, scale, and interior design. Detailing of the exterior is understated yet effective in combining function with aesthetics.

DANNELLY FIELD FIRE STATION

Alabama Air National Guard, Montgomery, Alabama

Design:

Baranier Davis Sims Architects Associated, Montgomery, Alabama

Command:

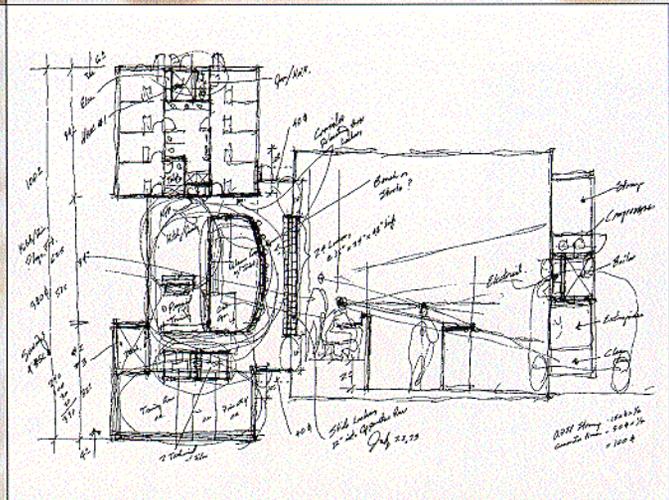
Air National Guard

Design Agent:

US Property and Fiscal Office for Alabama

Base Engineer:

187th Civil Engineer Squadron



JUROR'S COMMENTS:

Glass block and interior architectural detailing is very powerful.

Floor plan clearly separates functions and provides well-defined circulation.

Exterior treatment emphasizes function of building.

A good use of materials, a very well-scaled building.

Handsome exterior details with a structure well-expressed at the interior.



JUNIOR ENLISTED HOUSING

Vandenberg Air Force Base, California

Design:

Fisher-Friedman Associates, Architecture, Planning, and Urban Design,
San Francisco, California

Command:

Air Force Space Command

Design Agent:

Air Force Center for Environmental Excellence

Base Engineer:

30th Civil Engineer Squadron

This replacement project provides quality housing and neighborhood amenities that reflect private sector standards, respects regional design conventions, and enhances the quality of life for junior enlisted residents. While complementing earlier replacement housing phases, this phase introduces a new design providing housing that is energy efficient, flexible, low maintenance, and responsive to changing technology and lifestyles. The neighborhood is pedestrian friendly, safe, and maximizes use of existing infrastructure. Each home was designed to optimize the allowable floor area by minimizing circulation requirements. Cathedral ceilings and two-story volumes provide dramatic interior spaces. The sensitive mixture of design elements provides a variety of choices for families and establishes neighborhood diversity. Residents can choose either a one or two-story home, variations in floor finishes and cabinetry, and whether their home is located on a greenbelt or has a more private site. Existing overhead utilities were rerouted underground with spare capacity for future upgrades. Homes next to the greenbelt have wrought iron fencing, allowing an expanded view for the occupants, which also promotes security through visual monitoring of the greenbelt. Successful in every respect, this exemplary housing project can be the benchmark against which all Department of Defense housing is measured.



JUROR'S COMMENTS:

Well-executed design provides dramatic interior spaces with abundant natural light.

Good community plan, excellent floor plans and architectural style.

Simple, clean and crisp interior detailing. Handsome, low-maintenance exteriors, good forms, fine proportions and simple but functional details.

Fine housing by any standard.

Tremendous example of quality living environment, well done in every respect!



MARINA DEVELOPMENT PLAN

Hurlburt Field, Florida

Design:

Woolpert LLP, Dayton, Ohio

Command:

Air Force Special Operations Command

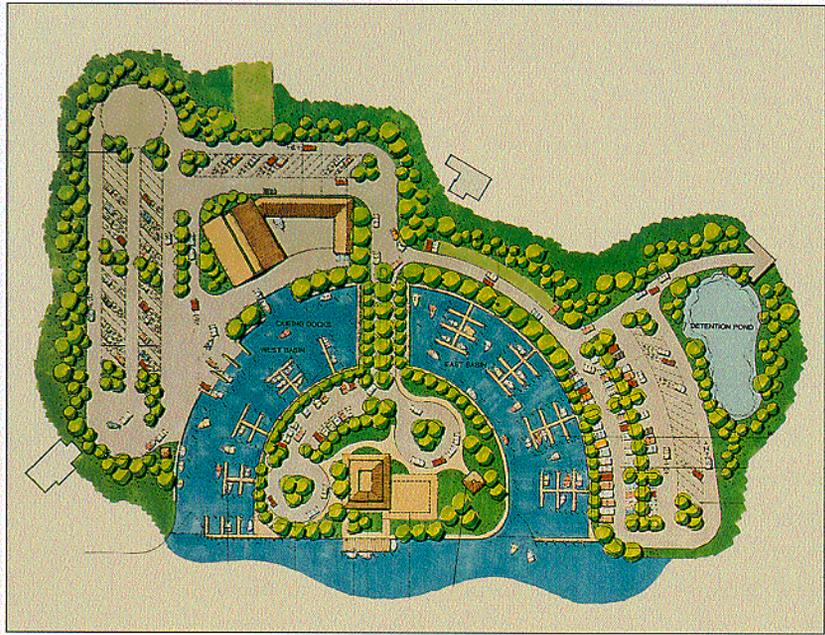
Design Agent:

Mobile District US Army Corps of Engineers

Base Engineer:

16th Civil Engineer Squadron

When Hurricane Opal made landfall on the Florida Panhandle in 1995, the old Hurlburt Field marina was destroyed. This redevelopment plan includes recommendations for facility requirements, site layout, utility system upgrades, and improvements to parking and landscaping. The plan meets its goals in all these areas. Efficiency and cost effectiveness in meeting the needs of the marina users is enhanced by creating optimal functional relationships, replacing facilities, ensuring the adequacy of utilities, and addressing vehicular circulation and parking needs. Public use areas are separated from storage and maintenance functions, vehicle and boat circulation is improved, and impacts on the surrounding residential area are minimized. Sensitive to its local environment, the plan avoids altering wetlands and ensures that new construction does not adversely affect surface water runoff. The development of this plan began with a thorough site and environmental analysis, then evolved into three concept proposals. The advantages and disadvantages of each concept were explored, and the final development plan capitalizes upon the best aspects of the three proposals. Finally, a construction phasing plan was developed to satisfy short, medium, and long-term planning goals.



JUROR'S COMMENTS:

Excellent, easy to follow and well-documented design process.

Detailed back-up for prioritization and phasing.

Decision-making is solid.

Excellent distillation of design information into a concise document.

Its brevity is one of its strengths.

JUROR'S COMMENTS:

A wonderfully graphic and precise report.

Worthy of emulating for other installations.

Example of how voluminous information and criteria can be consolidated into a user-friendly format.

Focuses on the design problems, not the history of the base.

Good and bad examples are equally instructive.

DESIGN COMPATIBILITY STANDARDS

Davis-Monthan Air Force Base, Arizona

Design:

Hanbury Evans Newell Vlattas and Company, Norfolk, Virginia

Command:

Air Combat Command

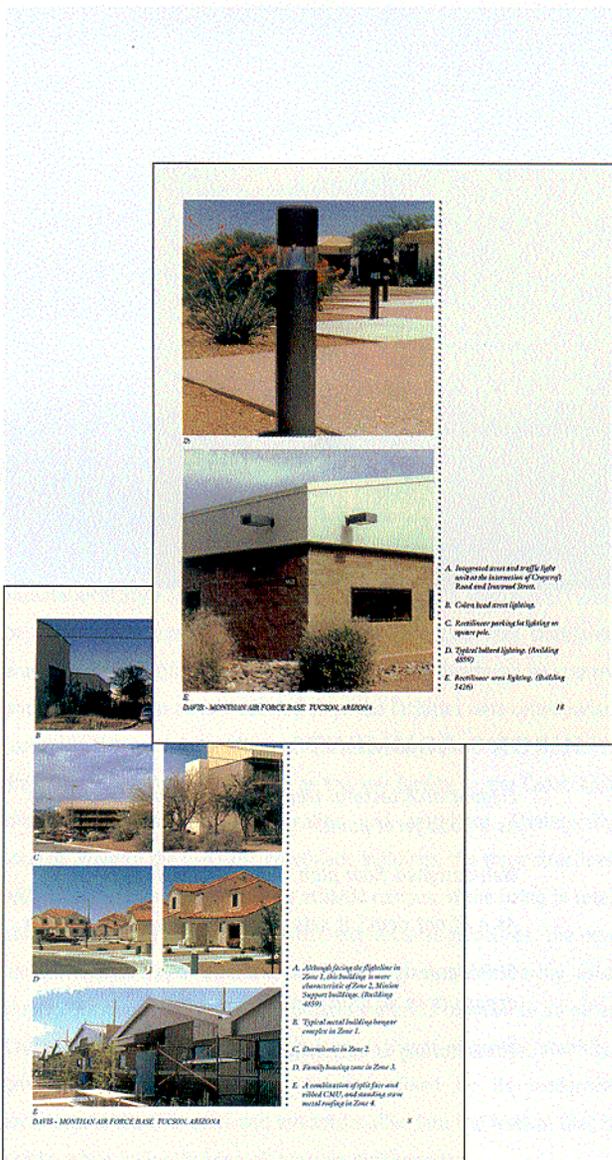
Design Agent:

Albuquerque District US Army Corps of Engineers

Base Engineer:

355th Civil Engineer Squadron

Distributed to all design professionals performing work at the base, this graphically oriented "rulebook" concisely outlines Davis-Monthan's design and planning standards, ensuring compatibility and aesthetic cohesiveness in future development. Clear, descriptive narrative and graphics combine to outline design approach, design elements, and planning directions. These guidelines are specific to and reinforce the unique character of the base and its surrounding desert environment. Although produced through a contract with an architectural firm, the document has been produced in a format that can be edited and printed in-house by base personnel. The development of the guidelines was based on staff interviews, analysis of existing design and planning guidance, and extensive site analysis and photographic documentation. The resulting "Davis-Monthan Style" is identified in both physical and philosophical terms. Exterior materials, building massing, and setbacks are addressed through physical examples, while the philosophical concepts of reducing maintenance requirements, using indigenous landscape materials, and minimizing energy consumption are emphasized throughout the document. Exemplary in its graphic design, information is presented through an appropriate hierarchy with clearly applicable graphics and supporting text.



OPERATIONAL SUPPORT FACILITY

Schriever Air Force Base, Colorado

Design:

RNL Design, Denver, Colorado

Command:

Air Force Space Command

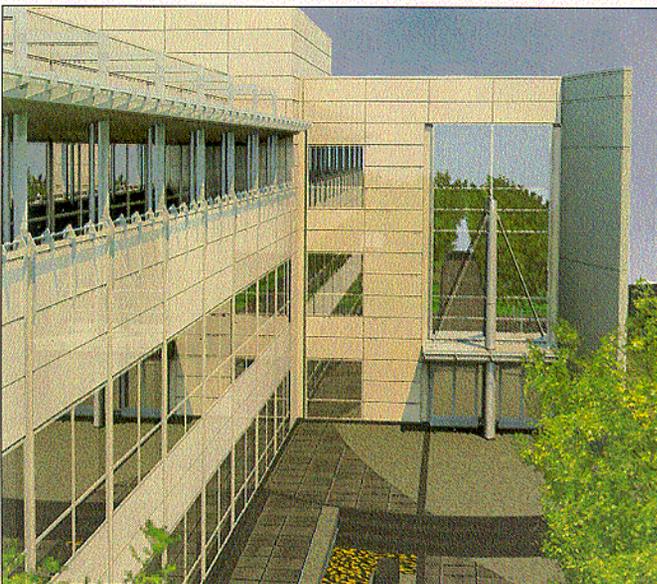
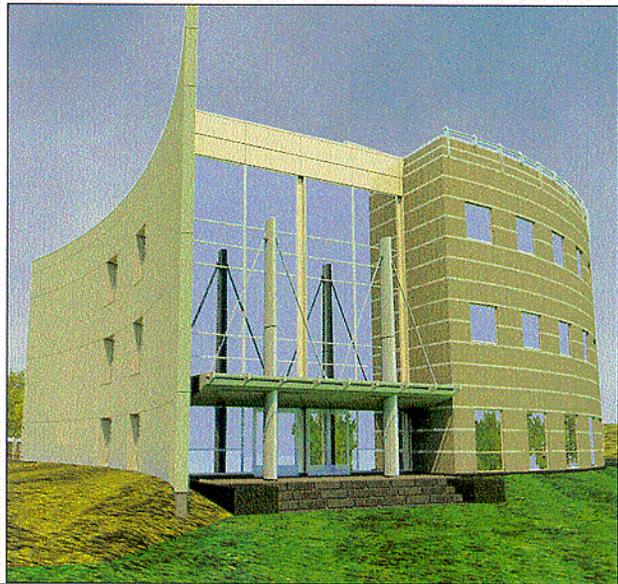
Design Agent:

Omaha District US Army Corps of Engineers

Base Engineer:

50th Civil Engineer Squadron

Currently located within the restricted area of Schriever Air Force Base, many administrative and equipment storage functions of the 50th Space Wing will now reside outside the restricted area in this new facility, providing better access and service to the wing. This innovative design represents a change in design direction away from the inflexible and costly precast textured concrete tilt-up panels currently established for all major facilities within the restricted area. This facility will set the standard for future development outside the restricted area, establishing a theme which has a lighter, more human scale that is more "people friendly" than the existing monolithic precast buildings. The design meets individual facility requirements while allowing flexibility to meet future mission requirements. The high-tech image of the new facility reflects the cutting-edge mission of the base, while keeping in tempo with current commercial office building design trends in the private sector. Force protection concerns are addressed using laminated glass and sensitive site grading. The building will be immediately recognizable as the wing headquarters, and will serve as a gateway to the base as it grows to the north in accordance with the base master plan.



JUROR'S COMMENTS:

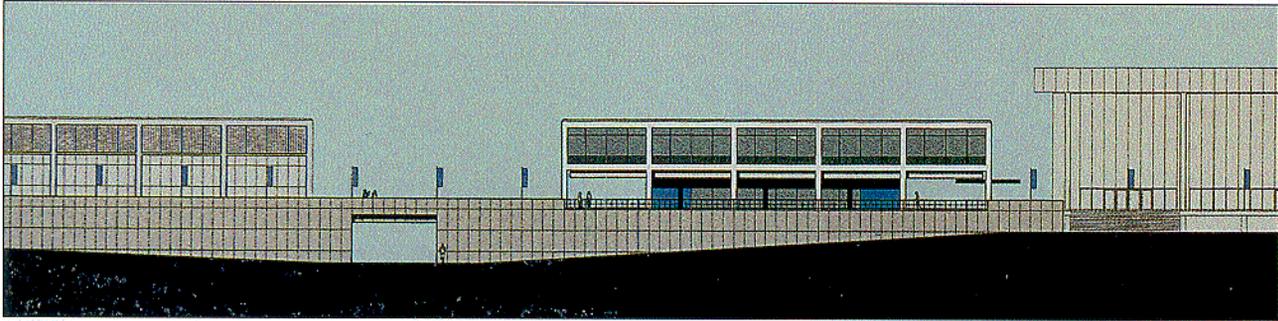
Elegant architectural treatment of elevations to serve as a good focal point.

Well-designed floor plan - clear and well organized.

As a "front door" it sets a good standard for the base.

Striking design represents a dramatic yet compatible departure in architectural style.

The detailing is outstanding.



SPORTS ANNEX

United States Air Force Academy, Colorado

Design:

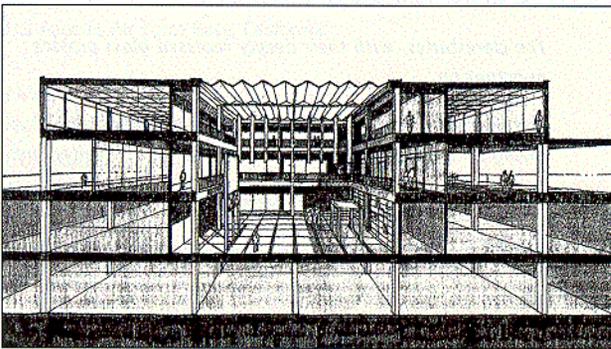
Lehman/Smith/Wiseman, Washington, DC

Command:

United States Air Force Academy

Base Engineer:

10th Civil Engineer Group



The Cadet Area at the United States Air Force Academy is widely recognized as one of the world's most prominent examples of International Style Architecture, and as such, presents special challenges to designers in introducing new buildings into this very structured environment. Existing athletic facilities have been overtaxed by a cadet population that has almost doubled since the facilities were constructed, justifying the need for additional space to support athletic programs. This new Sports Annex will serve as the key facility in the Cadet Area through its symbolism, functionality, and aesthetics. Strategically located between the two existing athletic buildings, the three structures will present an identifiable unified athletic campus. While being in total compliance with the Academy's strict architectural guidelines, the new annex reflects the proportions, massing, and spatial hierarchy used throughout the campus, and incorporates materials common to all other Cadet Area facilities. The design projects an image of quality, stability, and unity within an historic district defined by its modernist architecture, drawing users and spectators alike into the festival that is sports, while fully satisfying all program requirements.

JUROR'S COMMENTS:

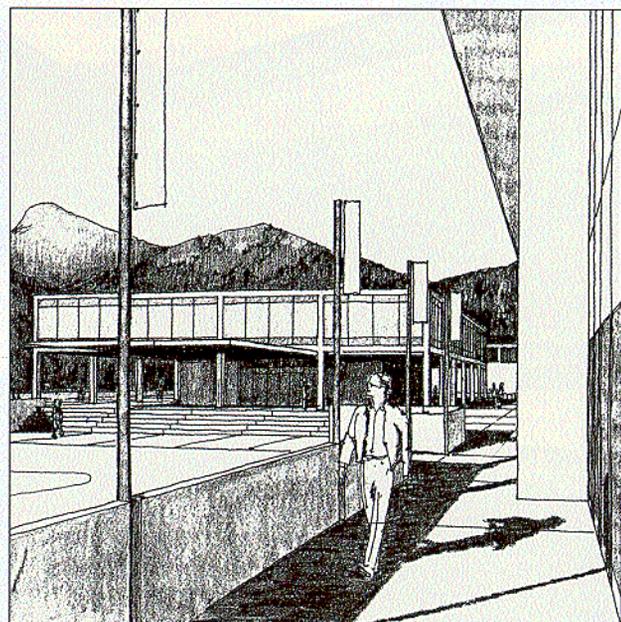
Excellent solution to expanding fieldhouse and gymnasium functions with minimal visual impact to existing complex.

Elegant and well conceived, it deftly negotiates through and around existing construction.

This is an appropriately low-key building very much in character with the overall Academy concept - highly compatible within the International Style.

A good solution to a very difficult problem.

Well organized.



AEROMEDICAL CLINIC

Edwards Air Force Base, California

Design:

Coleman/Caskey Architects, Inc., Irvine, California

Command:

Air Force Materiel Command

Design Manager:

Air Force Center for Environmental Excellence

Design Agent:

Sacramento District US Army Corps of Engineers

Base Engineer:

95th Civil Engineer Squadron

This clinic is an exciting and challenging design in that it is a free-standing addition to a remodeled existing Flight Medicine building. Five basic functional areas are included in the design: Flight Medicine, Physical Exams, Optometry, Military Public Health and Bio-environmental Engineering. Sensitive to their non-public nature, the latter two functions are located across the courtyard from the more intensive medical functions, both sections having their own entries. The central courtyard provides orientation and focus for the building components, providing a seamless link between the remodeled portion and the new construction. Roof clerestories bring filtered natural light deep into the interior of the building, while sunscreens and roof overhangs protect and shade the interior from the intense desert sun. The curved roof forms pay homage to the existing aircraft hangars within view of the project site.



JUROR'S COMMENTS:

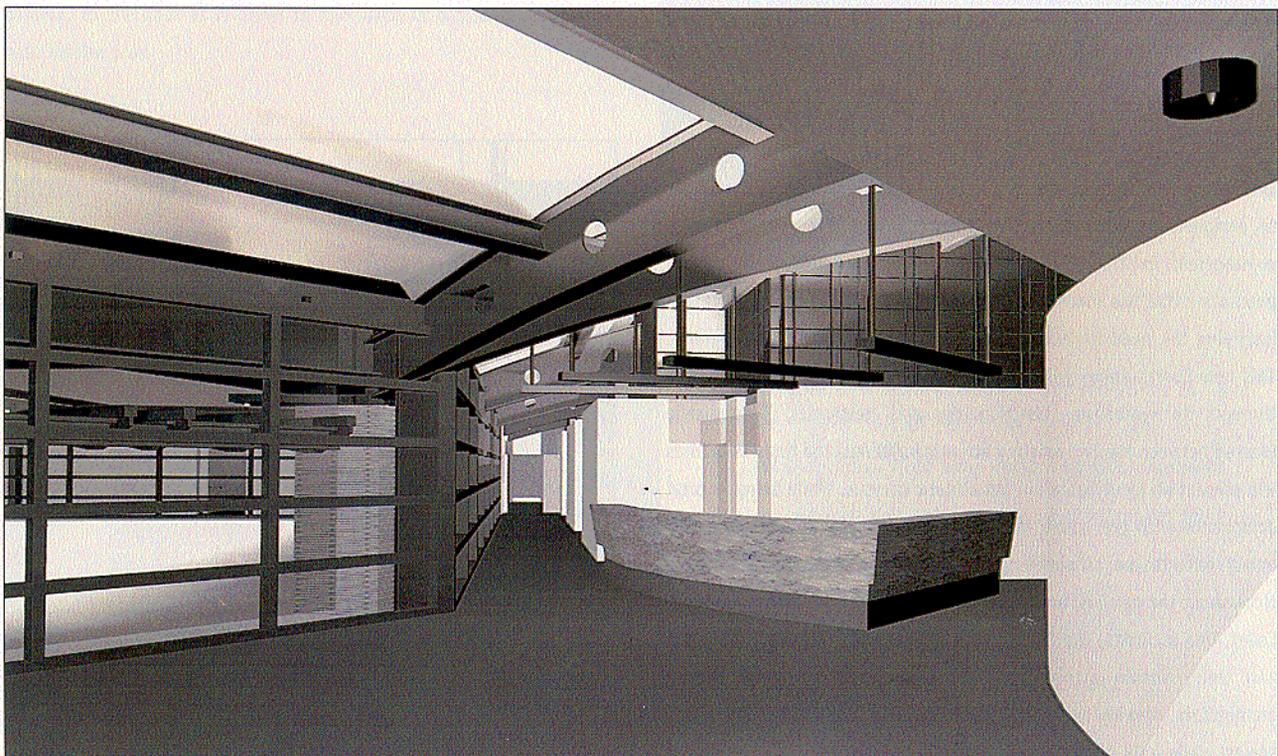
The curving roof forms, set at angles, take on an almost "pillow-like" softness.

The clerestories, with their deeply recessed glass provide punctuation.

The exposed structural elements reflect styles of hangars giving an industrial look consistent with base architecture.

The profile is attractive and blends well with the site.

Sensitive massing and exceptionally well detailed.





BUILDING 120 COURTROOM RENOVATION

Los Angeles Air Force Base, California

Design:

Pacific General, Inc., Mission Viejo, California

Command:

Air Force Materiel Command

Base Engineer:

61st Civil Engineer Squadron

The success of this renovation is evidenced by the high demand this courtroom receives, performing a dual role as a classroom when court is not in session. Blending traditional courtroom design with a contemporary flair, a dynamic court space has been created within the tight physical constraints of an existing building. Accessibility requirements have been met in a functional and aesthetically pleasing environment that satisfies programming and budget criteria. Set at an angle to maximize the use of existing space, direct access to the courtroom is provided, both in a visual and physical sense. A prefabricated vaulted ceiling was used to optimize the existing height within the space, and indirect lighting bounced off the vault provides an added sense of height and openness. The innovative floor plan offers a spacious centralized courtroom while providing optimal convenience and adjacencies for witness holding areas, the judge's chamber, a jury deliberation room, offices for defense and prosecution lawyers, an office for the court reporter, and ample storage space. Electronic media systems are fully integrated into this design, and include local area network connections, and a state-of-the-art public address and recording system. A projection screen and video monitors drop down from the ceiling by remote control, permitting access to vital information by all court participants.

JUROR'S COMMENTS:

Design follows concept submittal.

Interesting use of space.

Contemporary and attractive.



EMERALD CITY COMMUNITY CENTER

McConnell Air Force Base, Kansas

Design:

Gossen Livingston Associates, Inc., Wichita, Kansas

Command:

Air Mobility Command

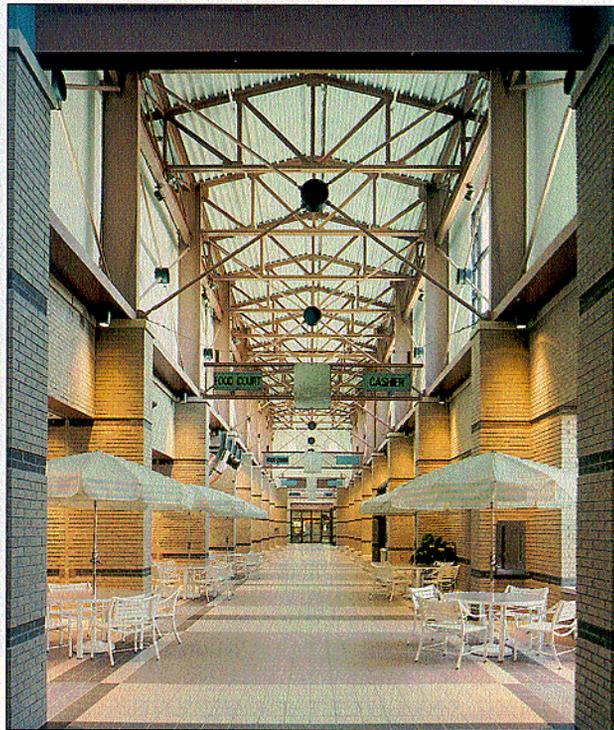
Design Agent:

Kansas City District US Army Corps of Engineers

Base Engineer:

22nd Civil Engineer Squadron

When a tornado destroyed most of the base's recreational facilities in 1991, a redevelopment plan entitled "Operation Toto" consolidated recreation centers that were previously scattered across the base into a unique, prototype single community structure. Centrally located, this facility is strategically placed next to the golf course, outdoor pool, athletic fields, and base housing. An L-shaped circulation spine serves as the central organizing element around which all the building's functional areas are positioned. The Officer and NCO clubs are located at one end while the fitness and bowling centers anchor the opposite end of the building. Located along the spine are retail facilities, administrative offices, meeting rooms, a child care center, a casual dining food court, and the Emerald Ballroom, with banquet seating for 370 people. The building's entry tower recalls the architectural elements of the nearby historic Wichita Air Terminal, and the building's exterior materials comply with the base's architectural compatibility standards. Substantial cost savings were realized by combining multiple facilities into a single structure. Parking and infrastructure savings were considerable, and additional savings were realized by consolidating food service operations and streamlining operations to minimize staff. This exemplary center has become a model for Base recreation centers across the Air Force.



JUROR'S COMMENTS:

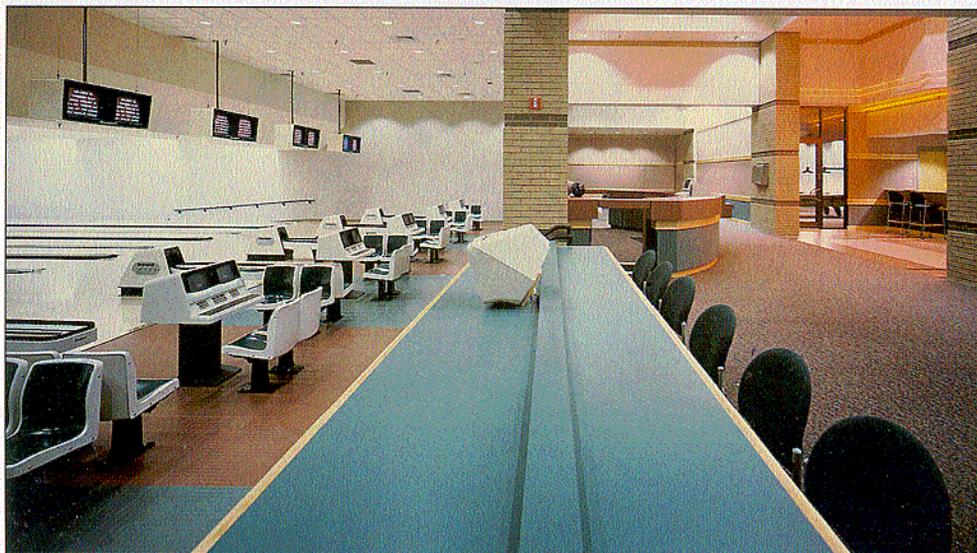
Wonderful use of colors and materials reflecting sensitivity to durability, sustainability and natural light.

Holistic approach to exterior and interior design.

Good floor plan and exciting skylit interior pedestrian spine.

Interesting exposed bracing for barrel roof.

Clean solution with exquisite detailing.





910TH WING HEADQUARTERS

Youngstown Air Reserve Station, Ohio

Design:

KZF Incorporated, Cincinnati, Ohio

Command:

Air Force Reserve Command

Design Manager:

Air Force Center for Environmental Excellence

Design Agent:

Louisville District US Army Corps of Engineers

Base Engineer:

910th Airlift Wing/CE

A variety of functions are accommodated in this facility, including Wing Headquarters, Security Forces, Civilian and Military Personnel, Administration, Finance, Safety, and the Mission Support Squadron. Not only were functional requirements and cost restraints addressed, the high quality design projects the proper image for a wing headquarters building. The various base support organizations are consolidated into a flexible facility that combines open office efficiency with the required level of privacy and security for each building occupant. This structure serves as a terminus for a planned boulevard which will become the major organizing spine for the base, in full compliance with the installation's Intermediate and Long Range Comprehensive Plans. The major elements of the wing are located in a relatively simple rectangular building, while the command section and training rooms are housed in a smaller, more distinctive wing which is centered on the axis of the new boulevard. The interior curved aerodynamic wall, in a metallic finish, is the principal visual design feature of the building. A large second floor window in this curved wall, centered on the axis of the boulevard, enables the command section to oversee the entry lobby, the main organizing spine of the base, and the flightline.

JUROR'S COMMENTS:

Interior spaces are articulate with synergism through each discipline - extremely well done.

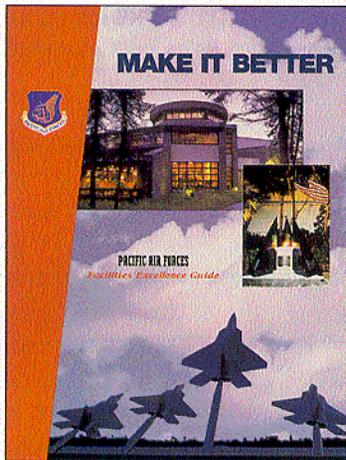
Excellent floor plan with well-defined circulation.

Good use of metal and glass to identify entrance and introduce natural light into the interior.

Handsome and crisp exterior and interior detailing.

Very clean solution with excellent massing and scale.





MAKE IT BETTER, PACAF FACILITY EXCELLENCE GUIDE

Pacific Air Forces

Design: Ortego Design and Advertising, Honolulu, Hawaii

Command: Pacific Air Forces

Promoting quality design for all PACAF facilities is the goal of this exemplary publication. Divided into four sections, Installation Planning, Facility Guidelines, Specific Quality of Life Facilities, and Other Programs, the guide uses superb graphics and clearly written text to reinforce the goal. Two principal themes are highlighted throughout the brochure: remembering and honoring our Air Force heritage and our core values of integrity, service and excellence, and recognizing past PACAF winners in the USAF Design Awards Program. Transparent overleaf pages set the tone for the document, and a variety of font sizes, colors, groupings, and other graphic techniques add interest and emphasis. The design quality of this guide reflects the same level of quality demonstrated by the featured examples, and sets a standard for all future facilities.

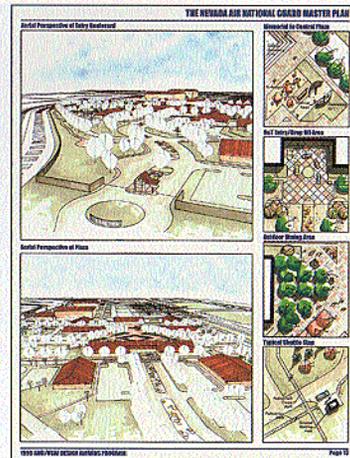
JUROR'S COMMENTS:

Its strength is in its readability.

It is attractive to professionals and lay people alike.

Graphically excellent.

Good promotional material as well as a collection of criteria.



MASTER PLAN, NEVADA AIR NATIONAL GUARD

Reno/Tahoe International Airport, Nevada

Design: GRW Engineers, Inc., Lexington, Kentucky

Command: Air National Guard

Base Engineer: 152nd Airlift Wing/CE

To make way for expansion of the passenger terminal at the rapidly growing Reno/Tahoe International Airport, the land currently occupied by the Nevada Air National Guard must be vacated. Through a process of screening over 50 potential sites throughout the state, the Southwest Quadrant of the airport was selected as the best available location for a new Air National Guard Base. To obtain maximum user input and buy-in, an entire scheduled Unit Training Assembly weekend was devoted to conducting a User Preference Survey. The results of this survey not only became the basis for site and facility development, this activity served to promote hope and enthusiasm among the members. The proposed master plan accommodates currently assigned C-130 aircraft, but allows expansion to meet any Air National Guard flying mission, such as conversion to "widebody" cargo aircraft. New facilities consolidate interrelated functions, minimizing life-cycle maintenance and utility costs. One of the plan's strong points is its phasing recommendations, which organizes projects to provide operational capability at the new site as soon as possible. This minimizes both the disruption of ongoing activities, and the length of time associated with managing two geographically separated operations.

JUROR'S COMMENTS:

Its strength lies in the demonstration of accumulated and assimilated data.

Quite good as a data source and technical resolution of site plan requirements.



COMMUNITY CENTER

Yokota Air Base, Japan

Design:

Yamashita Sekkei Inc. Architects, Engineers & Consultants, Tokyo, Japan

Command: Pacific Air Forces

Design Agent: Far East District US Army Corps of Engineers

Base Engineer: 374th Civil Engineer Squadron

This 270,000 square foot facility consolidates many smaller functions into a single structure, allowing vacated structures to be demolished or reused for other purposes, while vastly improving convenience for the center's patrons. Located on an installation with very limited real estate, this design makes exceptional use of its site, both in terms of functionality and appearance. The building is intentionally low and flat so as not to overpower the adjacent public highway, and is very well proportioned considering its size. In an area where parking is already at a premium, the building's impact is minimized by placing parking on the roof and maximizing grade level parking. In an additional effort to conserve real estate, the loading docks serving the Base Exchange area of the complex are located on the second level over the commissary service yard and loading docks, providing a very efficient means of handling deliveries on their respective retail level. This not only eliminates the need for a longer building, but also minimizes the need to move groceries or merchandise between floor levels.

JUROR'S COMMENTS:

The massing is handled very well.

Innovative site planning resulting in successful parking and access solutions.

A very innovative solution for a project of tremendous scope.

Exceptional massing and sensitive detailing of the elevations and building sections offer potential for a very exciting facility.



DORMITORY RENOVATION

Wright-Patterson Air Force Base, Ohio

Design: Burgess & Niple, Cincinnati, Ohio

Command: Air Force Materiel Command

Base Engineer: 88th Civil Engineer Group

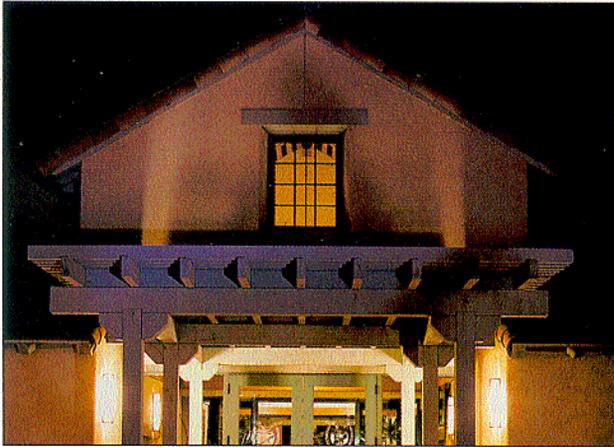
In this dormitory renovation project, the exterior of four very dated dormitory buildings are updated to achieve a contemporary, distinctive, and cohesive identity which extends into and includes the buildings, surroundings. The design balances a strong, integrated identity in the buildings and landscape with cost-effective treatment of maintenance and functional concerns. The signature element of the design is the curved airfoil roof structures which bear on the existing perimeter walls and span across the existing flat roofs. Not just an aesthetic feature, the roofs create internal space for future HVAC systems, provide optimal shelter from the elements, and allow positive roof drainage. Buildings are tied to the site through repetition of detailing and common elements. The courtyard's softer organic shapes and dense foliage provide a distinct counterpoint to the hard-edged building elevations. This project embraces the concept of sustainability through the use of long-life recyclable building materials, the introduction of solar shading, and by minimizing demolition waste.

JUROR'S COMMENTS:

Innovative use of roof trusses to minimize demolition provides a cost-effective constructable solution.

Curved roof ties in with surrounding hangar structures.

Great solution to a very difficult problem.



GOLF COURSE CLUBHOUSE

Vandenberg Air Force Base, California

Design:

HGHB Architecture/Planning/Urban Design, Monterey, California

Command:

Air Force Space Command

Base Engineer:

30th Civil Engineer Squadron

Reflecting the architectural image of the former Marshallia Ranch homestead which is adjacent, this club house is part of a cohesive design theme that enhances the entire complex and becomes a focal point of the 18-hole championship golf course. The color, pitch and style of the roof captures the Spanish influence prevalent in the surrounding Santa Barbara County area. Natural wood finishes, complementary colors, and durable materials combine to create an attractive, modern facility with a warm open, and informal atmosphere. The structure appears to be a single level building, but through subtle site grading, golf cart storage is conveniently concealed beneath the main floor. Open air dining on a lattice-covered, clay-tile patio and terrace expands the capabilities of the dining area and contributes to the pleasing exterior appearance.

JUROR'S COMMENTS:

Scale and material selection well-handled to provide excellent architectural compatibility with adjacent ranch structure.

Very fine scale and use of regional materials and details.

By any standard, a fine piece of contextual architecture.

Handsome interior spaces.

Outstanding solution from an architectural compatibility standpoint.



MOBILE TAIL ENCLOSURES

Robins Air Force Base, Georgia

Design:

DM Constructors, Inc., Greenville, South Carolina

Command:

Air Force Materiel Command

Base Engineer:

78th Civil Engineer Group

The principal goal driving this design was to win a very competitive aircraft maintenance contract. By minor modifications to hangar doors on two buildings, and constructing five Mobile Tail Enclosures, facilities were made available in less than one year, satisfying the contract requirements. The open-ended structures are mounted on fixed wheels that travel on a track system imbedded in the hangar approach apron. Each enclosure is assembled horizontally on temporary scaffolding, greatly decreasing labor and equipment costs as all remaining steel members, the roof and wall cladding, electrical systems, light fixtures, and fire protection systems are assembled while the structure is flat. When preliminary assembly is complete, the structure "stressed" to achieve the arched profile, the key element of this innovative design. The tubular trusses are designed so that the top chords carry the primary loads, while the bottom chords have steel tension cables running all the way through. Fixed on one end and attached to hydraulic jacks on the other, the cables are tensioned at a controlled pace. The process of stressing a single enclosure is completed in about eight hours. The enclosure is then fixed at each end, the back wall is assembled, and the bottom chords are filled with grout to stabilize the tensioned cables. The entire construction time for a single enclosure is only six weeks.

JUROR'S COMMENTS:

The execution is flawless in detail.

This is engineering design at its best.

Excellent innovation for potentially expensive requirement.



HANGAR R&D INTERIOR RENOVATION
 Cape Canaveral Air Force Station, Florida

Design:
 Johnson Controls (Launch Base Support Contract),
 Patrick Air Force Base, Florida

Command:
 Air Force Space Command

Base Engineer:
 45th Civil Engineer Squadron

Although originally designed as an aircraft hangar, the administrative office portion of this 1940's vintage building now houses an engineering organization. Adaptive reuse has resulted in an environment conducive to quality design and construction planning activities. The renovation was closely coordinated to meet varied user needs and allow for future growth and flexibility. Flexible office spaces were developed based on the size and function of work groups, and common spaces such as break areas, conference rooms and libraries were centralized. Ceiling level changes, cove moldings, indirect lighting and specific task lighting provide an exciting work environment, and the reuse of existing systems furniture reduced project costs.

The design meets facilities excellence standards while promoting a sense of professionalism and productivity.

JUROR'S COMMENTS:

- Good readaptive use of existing space.*
- Furniture space plan is innovative and promotes maximum productivity and circulation.*
- Dramatic contrast between new and existing.*

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Landscape Architecture*

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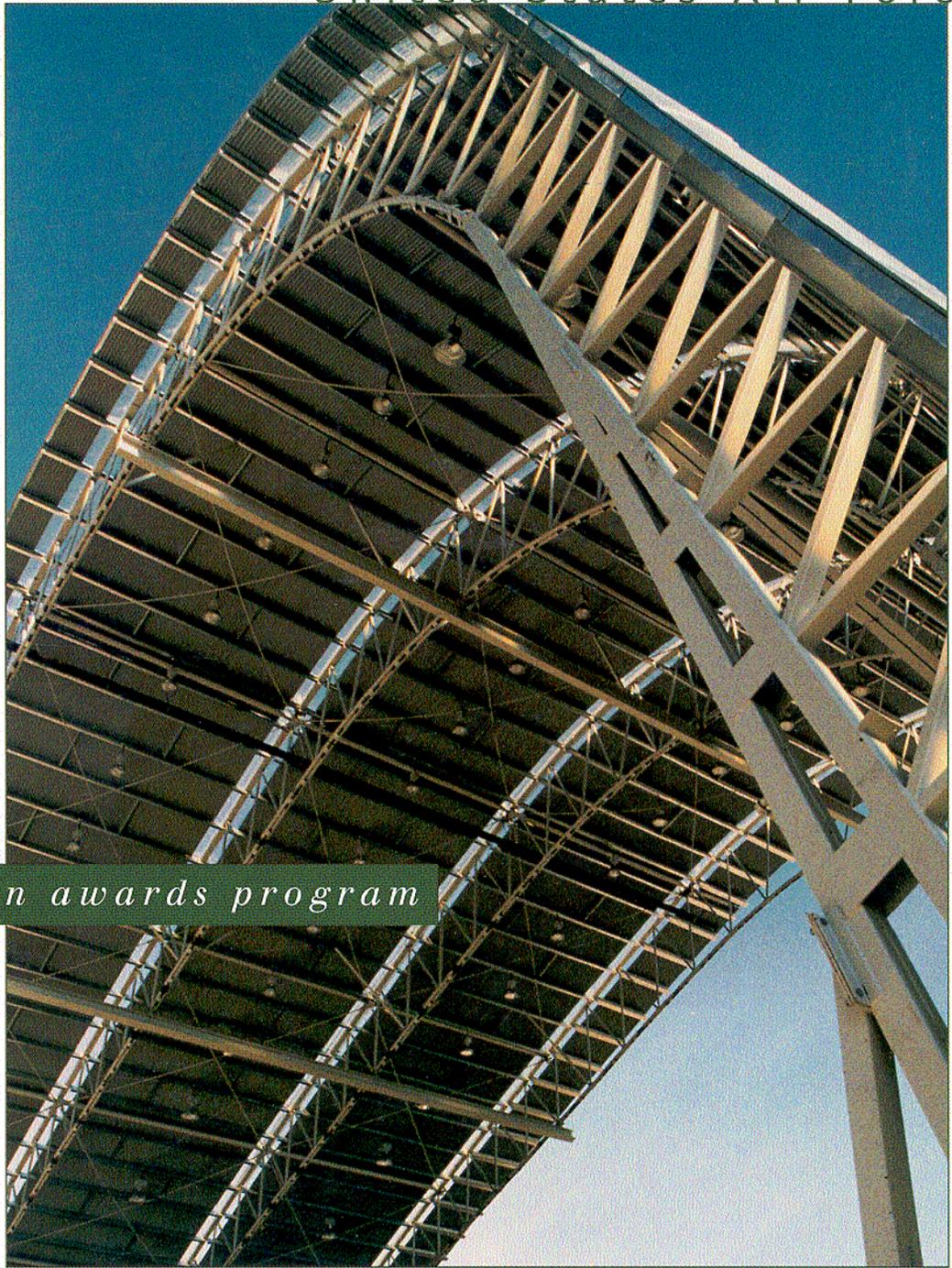
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