



UNITED STATES AIR FORCE



2000

DESIGN

AWARDS

PROGRAM



Over the last quarter century, the USAF Design Awards Program has become an important instrument the Air Force uses to recognize the exceptional accomplishments of many design professionals. While it is important to recognize the winning design teams featured in this brochure, the program also communicates the Air Force's standards of design excellence and fosters our reputation for quality facilities and installations.

Judging this year's winners was especially tough, and we have a higher percentage of winning entries than in recent years. This shows we are paying more attention to the importance of quality design across the board. We expect this quality for all of our installations and facilities, and these winners exemplify our standards of excellence. Our installations are comprised of much more than just random collections of unrelated buildings, runways and roads—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. We continually strive to be good administrators of our resources, and these projects reflect the Air Force's strong commitment to the concept of 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, while providing a healthy, durable and flexible working and living environment.

I congratulate this year's winners, and challenge the Air Force team to 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 that reads "Ernest O. Robbins II". The signature is stylized with a large, sweeping "E" and a prominent "II" at the end.

Ernest O. Robbins, II
Major General, USAF
The Civil Engineer

This Annual Report marks the Silver Anniversary of the United States Air Force Design Awards Program that was established in 1976 to recognize and promote design excellence.

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.

With the selection of this year's award winning projects, the Air Force has honored one hundred forty-three completed facilities, one hundred nine concept projects, fifty-one planning and landscape design projects, and forty-seven 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. The program is a proud recipient of the 2000 Federal Design Achievement Award, which recognizes exceptional design achievement from all sectors of the Federal Government.

HONOR AWARDS

CONCEPT DESIGN

Sports and Fitness Center
Holloman Air Force Base,
New Mexico

Youth Center
Minot Air Force Base,
North Dakota

INTERIOR DESIGN

Outdoor Recreation
Facility Renovation
Fairchild Air Force Base,
Washington

Gym and Locker
Room Renovation
Fairchild Air Force Base,
Washington

Enlisted Club Upgrade
Little Rock Air Force Base,
Arkansas

NCO Club Casual Lounge
Dyess Air Force Base, Texas

FACILITY DESIGN

Family Housing
Management Office
Vandenberg Air Force Base,
California

Composite Medical Facility
Elmendorf Air Force Base,
Alaska

Enlisted Club
RAF Mildenhall, United Kingdom

MERIT AWARD

PLANNING STUDIES AND DESIGN GUIDES

Housing Redevelopment Plan
Kadena Air Base, Japan

MERIT AWARD

CONCEPT DESIGN

Falcon's Nest
United States Air Force Academy,
Colorado

DoDEA Elementary and
Middle School
Andersen Air Force Base, Guam

Medical/Dental Clinic
Los Angeles Air Force Base,
California

MERIT AWARD

INTERIOR DESIGN

Dormitory Renovation
Los Angeles Air Force Base,
California

MERIT AWARD

FACILITY DESIGN

Composite Operations
and Training Facility
Hancock Field Air National
Guard Base, New York

Dormitory Complex Renovation
Vandenberg Air Force Base,
California

Outdoor Recreation Facility
Shaw Air Force Base,
South Carolina

Chemical Test Laboratory
Vandenberg Air Force Base,
California

Base Civil Engineer Facility
Minneapolis – St. Paul
International Airport Air National
Guard Base, Minnesota

CITATION AWARD

PLANNING STUDIES AND DESIGN GUIDES

Community Center/Dormitory
Area Development Plan
Barksdale Air Force Base, Louisiana

Facilities Excellence Guide 2000
Air Force Space Command

General Plan
Vandenberg Air Force Base,
California

Dormitory Area Development Plan
Davis-Monthan Air Force Base,
Arizona

CITATION AWARD

CONCEPT DESIGN

Ambulatory Health Care Center
Davis-Monthan Air Force Base,
Arizona

Dormitory Complex
Buckley Air National Guard Base,
Colorado

Noncommissioned Officers' Club
Ramstein Air Base, Germany

Physical Fitness Center
Barksdale Air Force Base, Louisiana

CITATION AWARD

INTERIOR DESIGN

Before and After School Space
Los Angeles Air Force Base,
California

CITATION AWARD

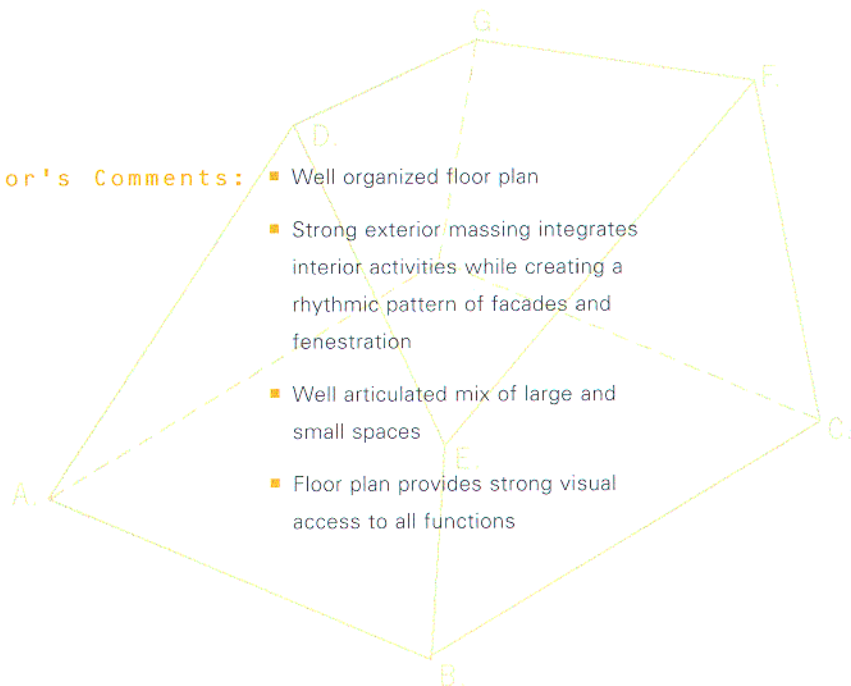
FACILITY DESIGN

Jet Engine Shop Addition
and Restoration
RAF Lakenheath, United Kingdom



Juror's Comments:

- Well organized floor plan
- Strong exterior massing integrates interior activities while creating a rhythmic pattern of facades and fenestration
- Well articulated mix of large and small spaces
- Floor plan provides strong visual access to all functions



SPORTS AND FITNESS CENTER Holloman Air Force Base, New Mexico

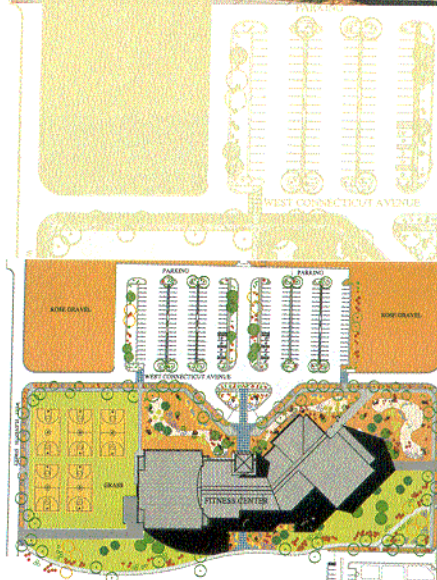
DESIGN ORGANIZATION: DESIGN COLLABORATIVE SOUTHWEST

COMMAND: AIR COMBAT COMMAND

DESIGN AGENT: ALBUQUERQUE DISTRICT US ARMY CORPS OF ENGINEERS

BASE ENGINEER: 49TH CIVIL ENGINEER SQUADRON

This family-friendly fitness, health, and training center replaces an existing gymnasium and provides a modern, state-of-the-art facility with upscale amenities, equipment and exterior treatment more comparable to a private health club than to a typical gymnasium. In full compliance with the base master plan, the facility will be the terminus of a pedestrian mall that provides a direct link to nearby airman dormitories. The exterior materials proposed for the new center adhere to the architectural compatibility standards of Holloman Air Force Base, and are affordably detailed with color banding and textural accents. Activity zones are effectively organized on either side of a linear two-story interior "mall" which serves as the facility's primary circulation spine. Large window walls at the center of the mall connect the entry, café, and seating areas to landscaped courtyards, while clerestory windows introduce natural light into the large interior spaces. Hip and gable roof forms effectively relieve the apparent mass of the structure, and exterior trellises provide shade and a sense of human scale. An entry tower at the center of the building creates a signature identity feature, while the arched gymnasium form makes a strong architectural statement.



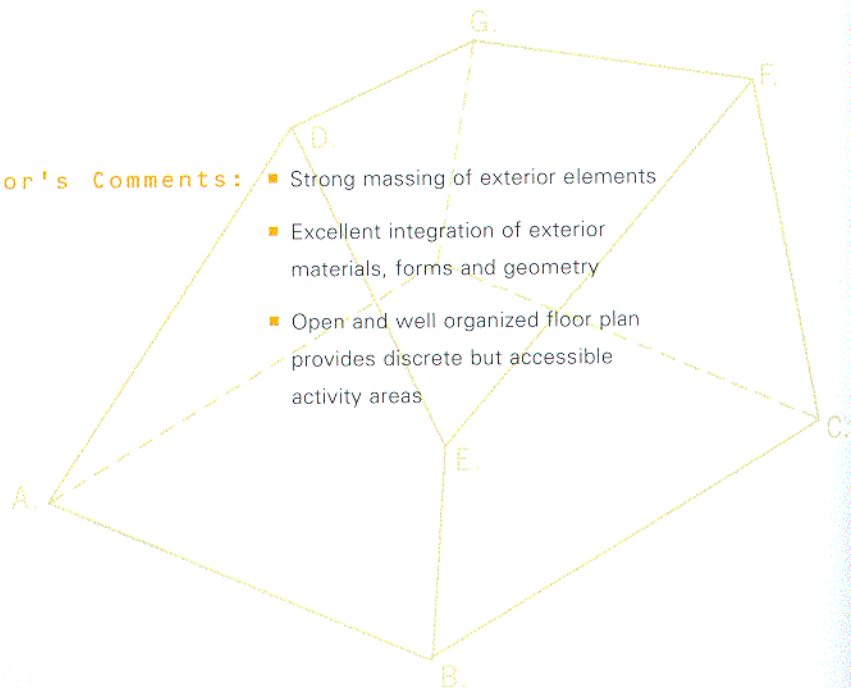
HOLLOMAN AIR FORCE E





Juror's Comments:

- Strong massing of exterior elements
- Excellent integration of exterior materials, forms and geometry
- Open and well organized floor plan provides discrete but accessible activity areas



YOUTH CENTER Minot Air Force Base, North Dakota

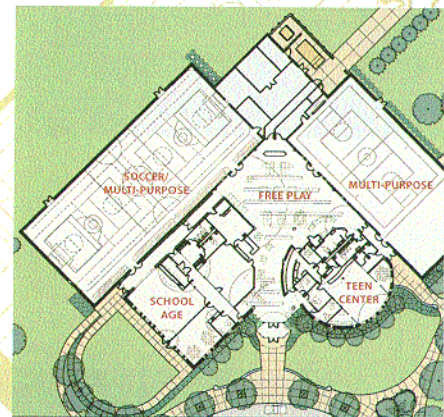
DESIGN ORGANIZATION: SETTER, LEACH & LINDSTROM, INC.

COMMAND: AIR COMBAT COMMAND

DESIGN MANAGER: AIR FORCE SERVICES AGENCY

BASE ENGINEER: 5TH CIVIL ENGINEER SQUADRON

Several primary goals were met in this exemplary design. It respects the site and its context, distinct zones are developed within the facility with which diverse groups can identify, a high-energy, environment that appeals to youth is created, the facility is organized to enhance staff efficiency, and the design focuses on achieving sustainability. The complex places larger masses of the building on the north side of the site to shelter the entry, with smaller components located to the south. The standard brick for Minot Air Force Base is used for the exterior facades, accented with light gray bands to reduce scale and relate to nearby housing and school buildings. Group space identity is accomplished by locating the teen center in a cylindrical form, the younger children's program in a unique stepped rectangular form, and the two large basketball and soccer arenas each in a simple rectangular form. These main functional areas are connected with a shared open space that provides activity areas and the central control desk. These highly articulated forms work together to provide appropriate scale and create visual interest. Clerestory windows bring natural light deep into the facility, while an exposed structural system, accent lighting and a bold color scheme blend together to animate the interior and create its high-energy atmosphere. Solar orientation, the incorporation of recycled and locally manufactured materials, careful dimensioning to reduce construction waste, natural lighting and ventilation, and energy efficient mechanical, electrical and lighting systems contribute to the sustainability of this model youth center.

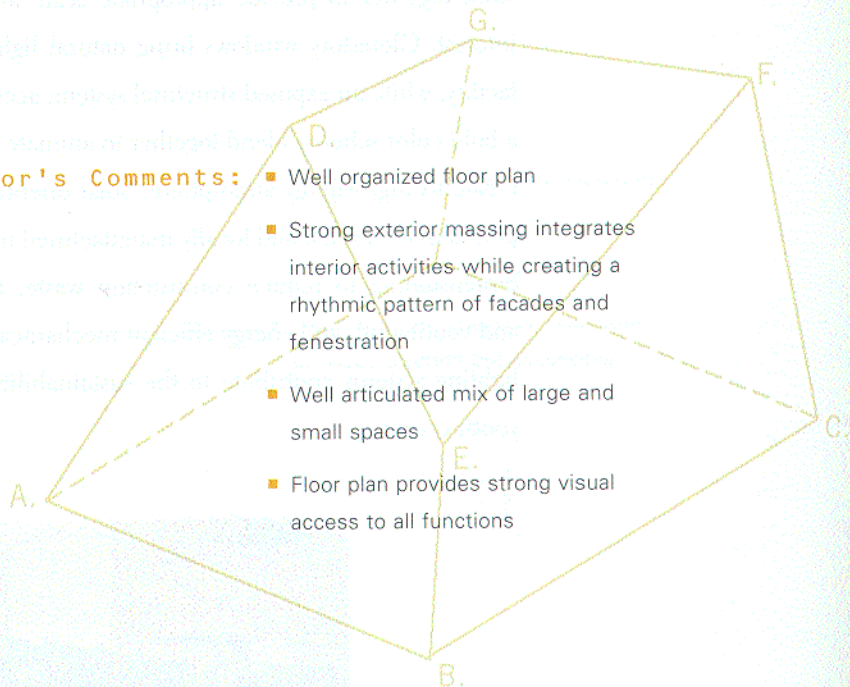


HONOR AWARD INTERIOR DESIGN



Juror's Comments:

- Well organized floor plan
- Strong exterior massing integrates interior activities while creating a rhythmic pattern of facades and fenestration
- Well articulated mix of large and small spaces
- Floor plan provides strong visual access to all functions



OUTDOOR RECREATION FACILITY RENOVATION Fairchild Air Force Base, Washington

DESIGN ORGANIZATION: ZECK BUTLER ARCHITECTS, P.S.
COMMAND: AIR MOBILITY COMMAND
DESIGN MANAGER: AIR FORCE SERVICES AGENCY
BASE ENGINEER: 92ND CIVIL ENGINEER SQUADRON

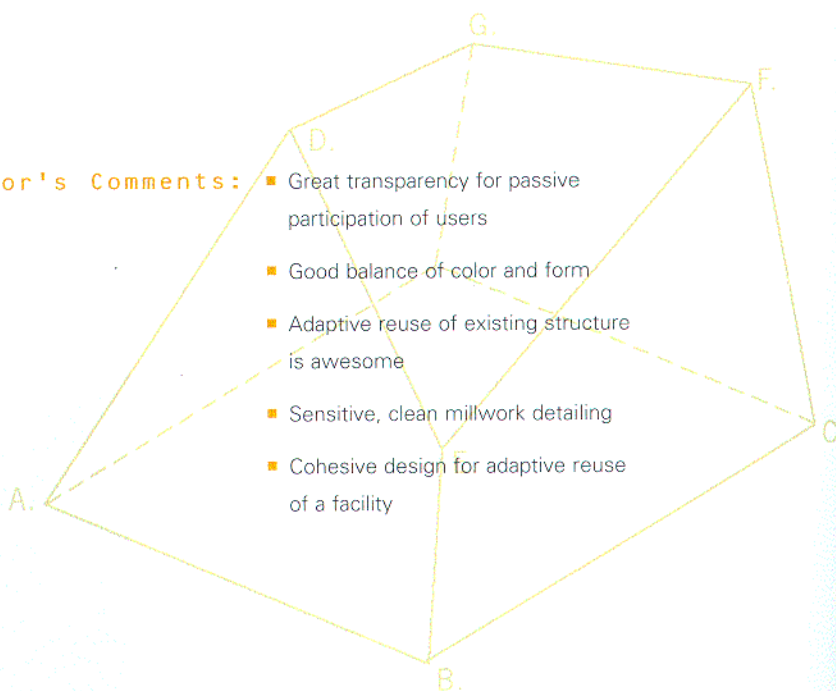
Drawing upon the abundance of outdoor recreation activities available in the Inland Northwest, this innovative Outdoor Recreation Facility provides equipment, services, and programs to promote camping, fishing, hiking, white-water rafting, and many other outdoor experiences. Located in a heavy timber supply depot built in 1944, the design emphasizes inherent aesthetics of the building, leaving structural members and industrial piping exposed. The services and activities provided by the Outdoor Recreation Facility are broad and expanding, and this new facility supports multiple activities with room to grow. The timber framed warehouse provides an ideal backdrop for equipment sales and rentals, display areas, ski tuning, classrooms, offices, and the facility's focal point: an indoor climbing wall. The design successfully introduces outdoor elements and a nature theme into the interior space. Finish materials, which include native stone, logs, metals and concrete, were intentionally left in their natural state. The heavy timber structure blends beautifully with these materials producing an outdoor feeling. Smaller structures are placed within the volume of the warehouse to create this sense. Restrooms are housed in a rustic "outbuilding", and window openings in the "sky lodge" provide a view of the climbing wall as if it were outdoors. An abstract river motif provides a unifying design element while a canoe at the service counter mimics a mountain lake reflection. Sensitive lighting and a black ceiling lends a nighttime ambiance to the space. This exceptional design effectively balances functional requirements with an appropriate level of theme elements to communicate the Northwest's natural beauty.





Juror's Comments:

- Great transparency for passive participation of users
- Good balance of color and form
- Adaptive reuse of existing structure is awesome
- Sensitive, clean millwork detailing
- Cohesive design for adaptive reuse of a facility



GYM AND LOCKER ROOM RENOVATION Fairchild Air Force Base, Washington

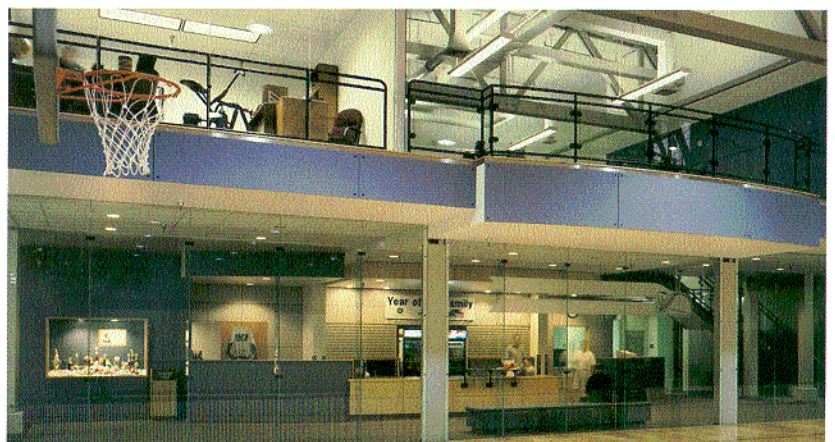
DESIGN ORGANIZATION: ZECK BUTLER ARCHITECTS, P.S.

COMMAND: AIR MOBILITY COMMAND

DESIGN AGENT: ALBUQUERQUE DISTRICT US ARMY CORPS OF ENGINEERS

BASE ENGINEER: 92ND CIVIL ENGINEER SQUADRON

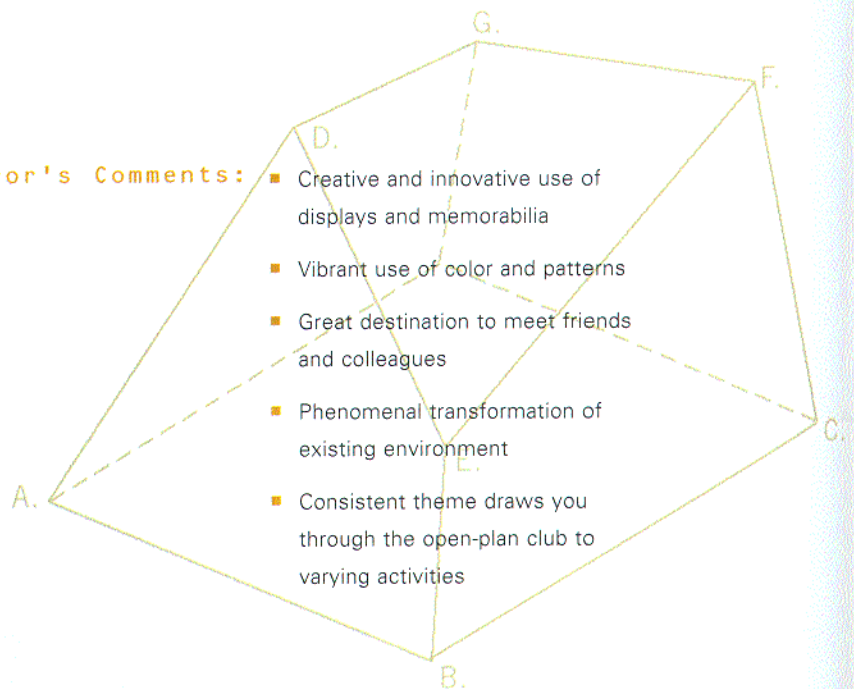
Numerous additions and alterations to this facility had resulted in an unorganized fitness center with a multitude of finishes. The plan had become confusing and inefficient and did not meet Air Force standards in many areas. Located at one end of a 50 year-old warehouse, the design approach for this renovation was to leave the existing structural members exposed in lieu of covering them up. This concept led to a somewhat industrial impression, which is accented by exposed fasteners, tempered glass, and colored accent panels. Large areas of the facility were left open to other spaces or defined with glass to create an open, free flowing plan. Most of the fitness center's major spaces were left in their original locations, but many were adjusted in plan for better space utilization. A mezzanine level was added to accommodate staff offices and a lounge, a centrally located control desk is provided, and a new area was created for cardiovascular training. The locker room layouts were vastly improved, allowing the addition of saunas and a spa, and a new entry to the facility directs users to the control desk. The design allows the fitness center to be managed with a minimal number of staff members, and the control desk also serves an equipment checkout function. This vibrant, functional facility stands as an excellent example of effectively using older buildings for functions other than their original purpose, saving the cost of constructing a totally new facility.





Juror's Comments:

- Creative and innovative use of displays and memorabilia
- Vibrant use of color and patterns
- Great destination to meet friends and colleagues
- Phenomenal transformation of existing environment
- Consistent theme draws you through the open-plan club to varying activities



ENLISTED CLUB UPGRADE Little Rock Air Force Base, Arkansas

DESIGN ORGANIZATION: HOOVER & ASSOCIATES/FROST & KEELING ASSOCIATES, INC.

COMMAND: AIR EDUCATION AND TRAINING COMMAND

DESIGN AGENT: AIR FORCE NON-APPROPRIATED FUND PURCHASING OFFICE

DESIGN MANAGER: AIR FORCE SERVICES AGENCY

BASE ENGINEER: 314TH CIVIL ENGINEER SQUADRON

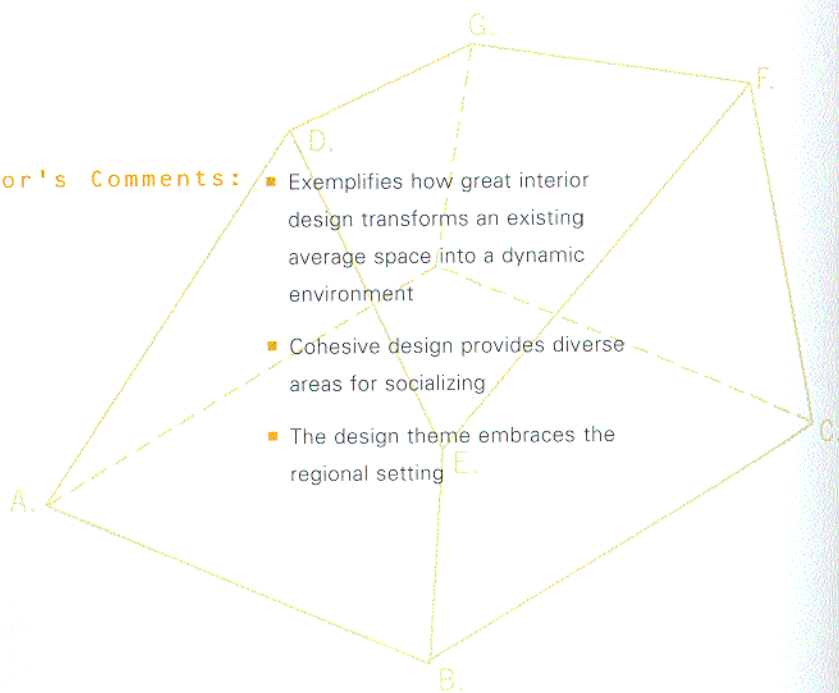
This Air Force Club's signature brand restaurant and nightclub, called "J. R. Rocker's Sports Café", combines unique lighting, furnishing, color, and multimedia systems to create a totally different club experience. The design generates an electric atmosphere conducive to customer and staff interaction, fun and excitement. Approximately 10,000 square feet of the existing enlisted club was converted into the new nightclub, incorporating standard J. R. Rocker's interior design elements. These elements include black and white checkerboard floor tile and back bar accents, black confetti pattern carpet, signature neon lighting, corrugated galvanized metal wall accents, and a standard furnishings package in vibrant colors. The club features a state-of-the-art sound, video and lighting system that controls five independent zones, and includes dance light, laser, strobe, and smoke effects. The standard design elements are complemented by an incredible collection of unique sports memorabilia, artwork and artifacts. This includes a life-size Heisman Trophy model, football tackle, hockey player, and snow boarder mannequins, ceiling mounted kayaks, a variety of college and autographed National Football League helmets, and a boxing dummy in a simulated boxing ring. A unique ceiling accent includes hundreds of suspended sports balls, and large Sears Craftsman toolboxes serve as host/hostess greeting stations. J. R. Rocker's has proven itself as a unique on-base getaway by greatly exceeding income projections and by generating over 800 new club memberships within six months of the grand opening.





Juror's Comments:

- Exemplifies how great interior design transforms an existing average space into a dynamic environment
- Cohesive design provides diverse areas for socializing
- The design theme embraces the regional setting



NCO CLUB CASUAL LOUNGE Dyess Air Force Base, Texas

DESIGN ORGANIZATION: AIR COMBAT COMMAND INTERIOR DESIGN OFFICE
COMMAND: AIR COMBAT COMMAND
BASE ENGINEER: 7TH CIVIL ENGINEER SQUADRON

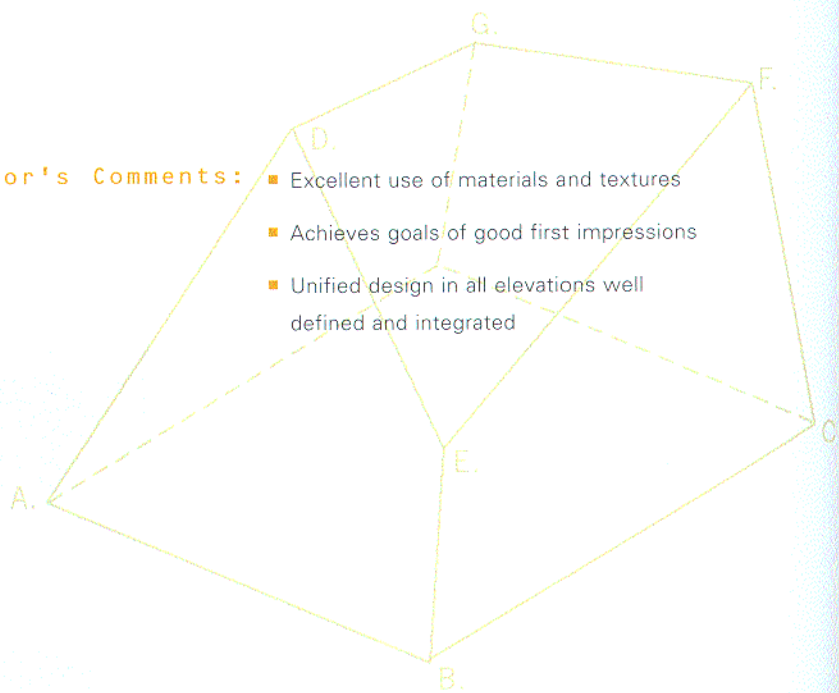
Tailored around a Western theme consistent with the surrounding environment, this renovation project avoids a generic interpretation and focuses on strong design elements specific to Texas. Many existing elements were retained in the new design, but new materials and furnishings, selected for their maintainability and ease of cleaning, accentuate the theme. This new unified design unfolds its theme in a layered sequence from the entry, through the vestibule, and finally to the lounge itself. The success of this design is partly due to the contrast between the irregularity and natural rusticity of the barn wood and other natural materials, with the modern, smooth surfaces of the ceramic tile accents. Of particular note is the care taken by the designer to specify the placement of individual colored floor tiles to prevent regularity. Accessories which support the theme were carefully selected to reinforce the architectural design, and many items, such as drums and iron pulls, invite a pull or a bang to allow the patron to fully experience the Western theme. This facility offers a very distinct, individual environment with a very strong cultural theme, offering visitors and residents alike a truly unique lounge experience.





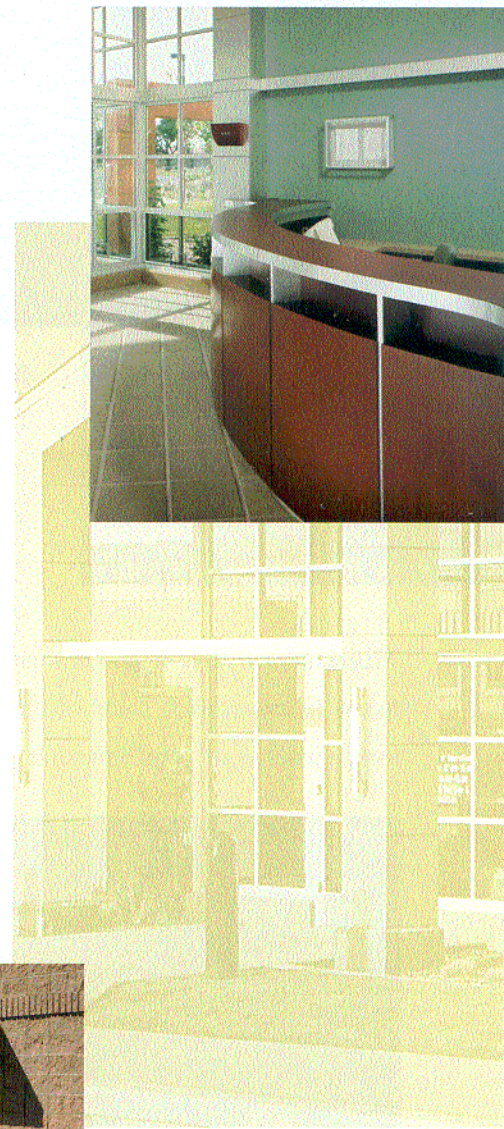
Juror's Comments:

- Excellent use of materials and textures
- Achieves goals of good first impressions
- Unified design in all elevations well defined and integrated



DESIGN ORGANIZATION: KRUGER BENSEN ZEIMER ARCHITECTS, INC.
COMMAND: AIR FORCE SPACE COMMAND
BASE ENGINEER: 30TH CIVIL ENGINEER SQUADRON

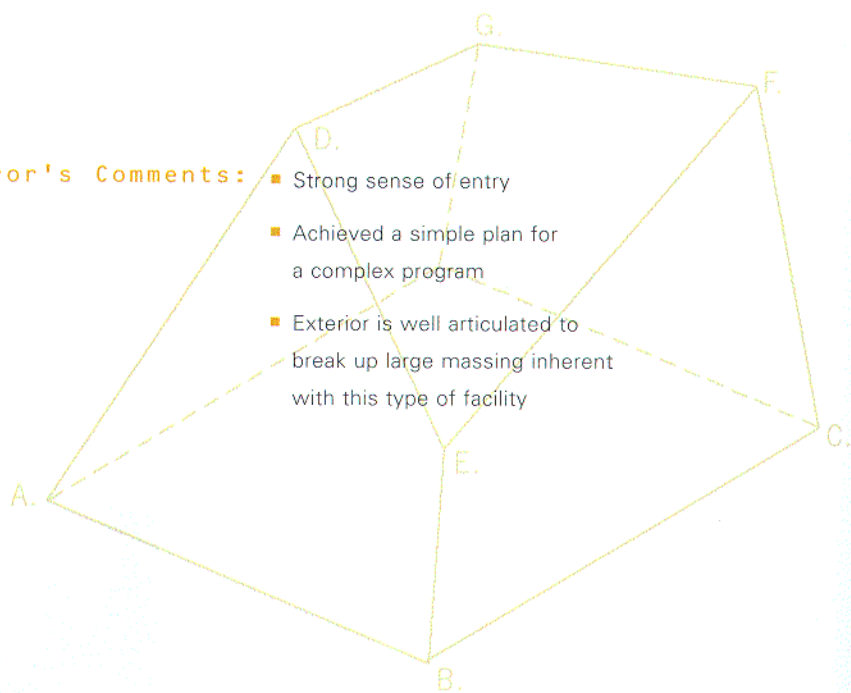
Sensitive to its environment, while incorporating some of the architectural elements of the award-winning family housing neighborhoods at Vandenberg, this new Family Housing Management Facility is distinctive and easily recognized as to its function. The design complies fully with the base's facility excellence standards and effectively communicates the regional lifestyle and predominate architectural style. The upper roof form with its dormer windows is reminiscent of traditional housing elements, and the glazed main entry structure presents a welcoming, residential form. A curved screen wall acts to soften the rectangular building form and gives the facility a sense of human scale found in housing neighborhoods. The bright and cheerful interior spaces provide a pleasant atmosphere for staff and visitors alike. Indoor and outdoor play areas are arranged to allow customers to attend to business while keeping an eye on their children. An interior break area, coupled with a terraced patio on the leeward side of the building, allows small-scale food preparation while affording space for informal staff conferences. Separate parking areas isolate staff and contractor vehicles from less-maneuverable trailers and rental moving vans. As the first impression that airmen and their families receive upon arriving at the base, this exceptional facility establishes the level of design and construction quality they can expect for their living units.





Juror's Comments:

- Strong sense of entry
- Achieved a simple plan for a complex program
- Exterior is well articulated to break up large massing inherent with this type of facility



COMPOSITE MEDICAL FACILITY Elmendorf Air Force Base, Alaska

DESIGN ORGANIZATION: ADP MARSHALL

COMMAND: PACIFIC AIR FORCES

DESIGN MANAGER: AIR FORCE MEDICAL SUPPORT AGENCY

DESIGN AGENT: ALASKA DISTRICT US ARMY CORPS OF ENGINEERS

BASE ENGINEER: 3RD CIVIL ENGINEER SQUADRON

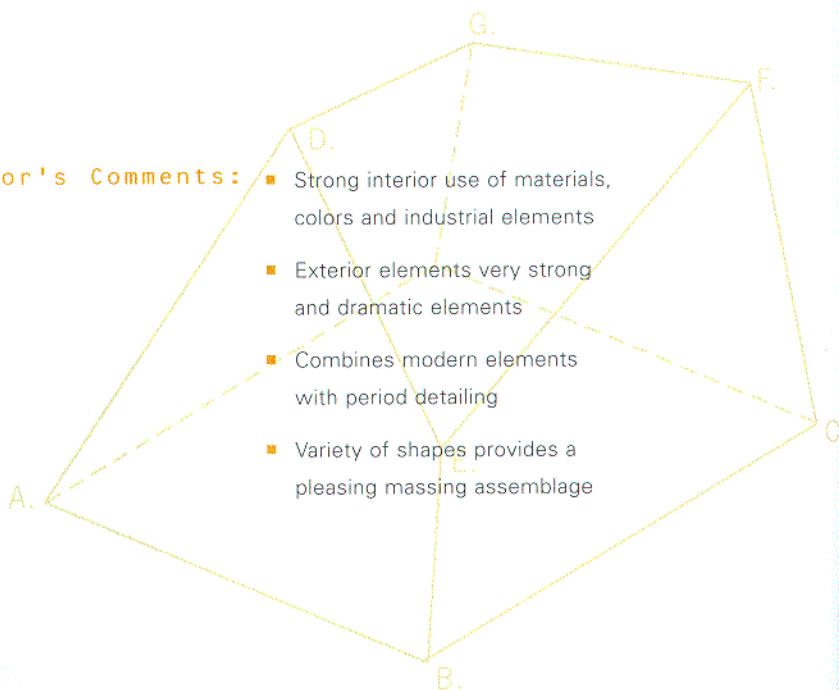
As a 430,000 square foot replacement for the existing 3rd Medical Group hospital that was damaged by the 1964 Alaska earthquake, this Composite Medical Facility functions in a dual role as a primary care hospital and as the medical referral facility for Alaska's Military Health Service System. This 110-bed state-of-the-art facility provides full medical services to Air Force personnel, active duty Army personnel stationed at Fort Richardson, and select medical services to Anchorage's veteran population. The design goals for the facility included its designation as an "Essential Facility" in a natural disaster or security threat, flexibility in the design in anticipation of future changes in healthcare delivery systems, a building life span of at least 50 years, and to design a sustainable facility that is energy efficient and environmentally responsible. Flexibility is enhanced by providing interstitial building service mezzanines between each functional level of the hospital and locating utility pods along the perimeters of the building. This configuration allowed maximum flexibility for initial space planning and allows for major renovations or expansions to occur with minimal disruptions. The plan incorporates a "Medical Mall" concept to provide convenient access to the various medical services. The hospital's interior environment promotes healing by introducing an abundance of natural light as visitors and patients wait and circulate among plants and native artworks. The facilities compact plan reduces the building's exterior envelope while retaining the existing spruce and birch forest to the maximum extent, and an existing "moose walk" was incorporated into the site layout allowing patients to view these magnificent animals. Sustainability is supported through the use of low maintenance, easily constructed, energy efficient building materials and systems. A unique and environmentally sensitive solution for cooling the facility is the use of onsite groundwater as the chilled water source in lieu of a traditional chilled water plant. During summer months, the clean water discharge from the cooling system serves as a water feature and stream at the entry rotunda before recharging the water back underground.





Juror's Comments:

- Strong interior use of materials, colors and industrial elements
- Exterior elements very strong and dramatic elements
- Combines modern elements with period detailing
- Variety of shapes provides a pleasing massing assemblage



ENLISTED CLUB RAF Mildenhall, United Kingdom

DESIGN ORGANIZATION: KVAERNER CONSTRUCTION/
MICHAEL GIBSON DESIGN/LEVITT PARTNERSHIP

COMMAND: UNITED STATES AIR FORCES EUROPE

DESIGN AGENT: DEFENCE ESTATES, US FORCES

DESIGN MANAGER: AIR FORCE SERVICES AGENCY

BASE ENGINEER: 100TH CIVIL ENGINEER SQUADRON

Two existing clubs at RAF Mildenhall, the Galaxy Club and the Marauder Club were housed in separate buildings and were unable to provide adequate dining, entertainment and leisure activity space for their patrons. This new club consolidates the functions of both into a single facility. Careful demolition planning and construction phasing allowed the adjacent Galaxy Club to remain in operation during the entire construction period for the new Enlisted Club. Adapting architectural features from adjacent structures, the new club fully complies with the architectural compatibility standards for the base, and pays special attention to proper massing and scale. Force protection features were incorporated into the design, including standoff distances for parking lots and roadways, and protected glazing. Many mature trees and shrubs were protected during demolition and construction and have been effectively incorporated into the new design. The plan accommodates public and private functions and pays particular attention to efficient kitchen designs, bar layouts, beverage product delivery requirements, and specialized audio-visual and entertainment lighting systems. This new, dynamic facility has become a focal point for the installation. As one of the largest military club facilities in Europe, this club incorporates innovative design solutions that were developed through close coordination with the facility users throughout the design process.



MERIT AWARD

HOUSING REDEVELOPMENT PLAN

PLANNING STUDIES AND DESIGN GUIDES

KADENA AIR BASE, JAPAN

DESIGN ORGANIZATION: GRW INC.

COMMAND: PACIFIC AIR FORCES

DESIGN AGENT: JAPAN DISTRICT / US ARMY CORPS OF ENGINEERS

BASE ENGINEER: 18TH CIVIL ENGINEER SQUADRON



Based on input from over 800 responses from a housing resident survey, and on concepts developed through an intensive Air Force Assistance Team Program visit, this innovative plan accomplishes multiple goals. It replaces deteriorated housing units, increases usable land area, improves community services, replaces failing infrastructure, meets current energy efficiency standards, provides an exceptional quality-of-life for military families, and reinforces a strong sense of community. Careful project phasing will allow replacement of over 1400 housing units in seven stages, with a strong emphasis on neighborhood development. Compatible military ranks are grouped within eight identifiable neighborhoods, all with improved primary road systems and entrances designed to minimize conflicts between pedestrians and vehicles. Force protection requirements are met by providing the appropriate standoff distance between the housing units and the perimeter fence and providing concealed, protected, underground utilities. A linear park around the perimeter of the housing area not only offers excellent recreational and fitness opportunities for the residents, it also provides visual relief between the industrial and housing areas while serving as a standoff area and visual screen for force protection.

Juror's Comments:

- Strong character identity and sense of neighborhood identities clearly established
- In depth documentation, very clear graphics, strong interior pedestrian linkages

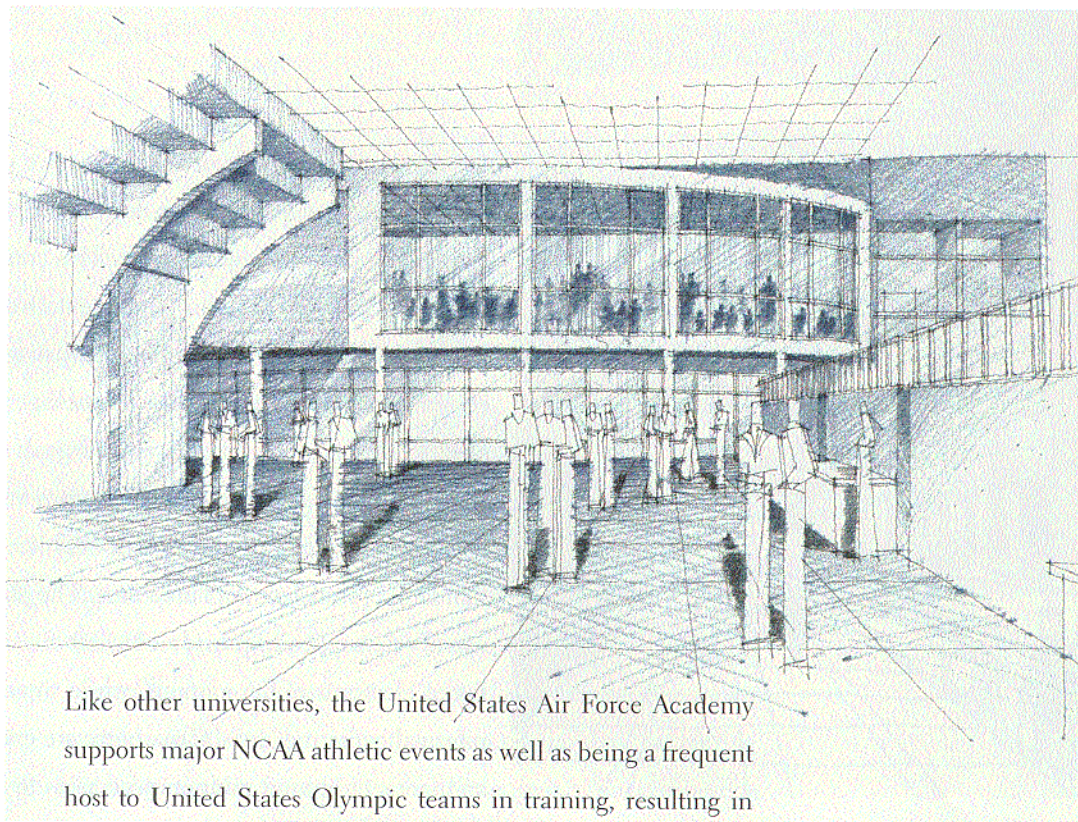


MERIT AWARD CONCEPT DESIGN
FALCON'S NEST UNITED STATES AIR FORCE ACADEMY, COLORADO

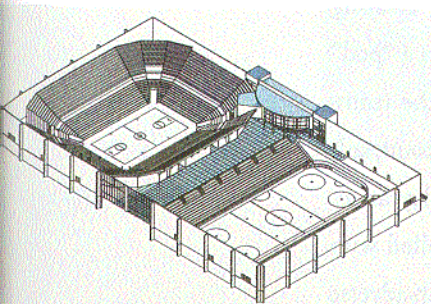
DESIGN ORGANIZATION: UNITED STATES AIR FORCE ACADEMY

COMMAND: UNITED STATES AIR FORCE ACADEMY

BASE ENGINEER: 10TH CIVIL ENGINEER GROUP

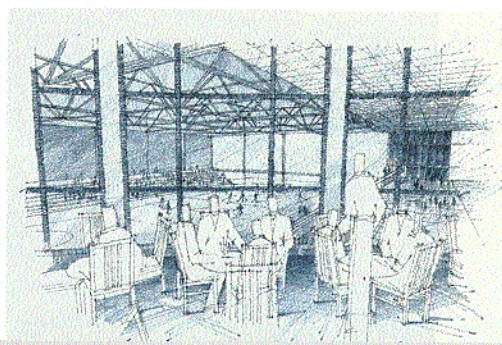


Like other universities, the United States Air Force Academy supports major NCAA athletic events as well as being a frequent host to United States Olympic teams in training, resulting in national media exposure. This well-appointed viewing platform plays an important role in defining the quality of the institution and its programs. Extensive evaluation of available space in the Cadet Field House determined the need to construct a new level midway between the main concourse floor and the roof in order to meet line-of-sight requirements to observe the indoor track, basketball area, and the ice rink. This elevated solution does not compromise circulation patterns during athletic events, and provides a unifying focal point for the Field House. The semicircular Falcon's Nest provides dramatic views to all major athletic venues and provides lounge space for discussion and relaxation before, during and after sporting events.



Juror's Comments:

- Efficient and creative use of space
- Effective execution of goals
- Space orients you towards athletic activities and provides visual axis to multiple venues



MERIT AWARD

DODEA ELEMENTARY AND MIDDLE SCHOOL

CONCEPT DESIGN

ANDERSEN AIR FORCE BASE, GUAM

DESIGN ORGANIZATION: AM PARTNERS, INC.

COMMAND: PACIFIC AIR FORCES

DESIGN AGENT: ENGINEERING FIELD DIVISION PACIFIC, NAVAL FACILITIES ENGINEERING COMMAND

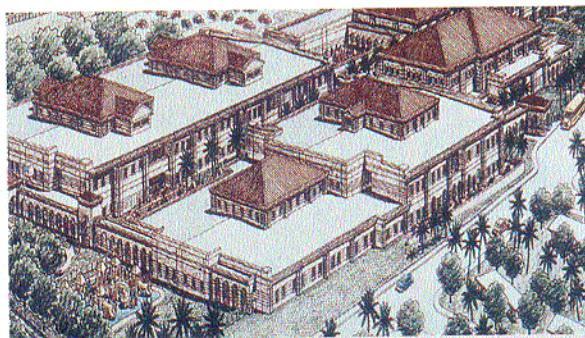
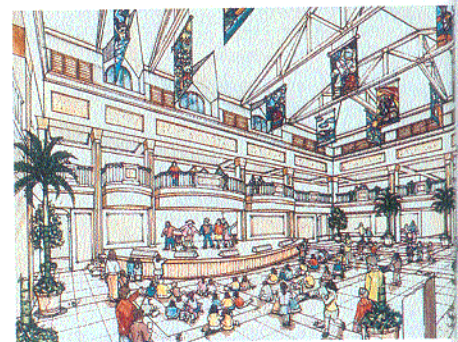
BASE ENGINEER: 36TH CIVIL ENGINEER SQUADRON



Juror's Comments:

- Excellence creation of public and private spaces
- Good integration of a complex educational program
- Exceptional organization of adjacent facilities
- Effective program execution and analysis

An outstanding example of a collaborative design process, this concept began with an eleven-day design charrette to develop goals and functional requirements. This concept design session involved school administrators, representatives from the base, the local construction agency, and design managers in developing a comprehensive Request for Proposal package for this design-build project. The resulting design meets its goals of providing quality educational space that embraces a team-teaching philosophy, while complying with the unique architectural compatibility standards of Andersen Air Force Base. The plan features effective use of open space to provide efficient circulation between the major elements of the campus, while simultaneously creating informal gathering areas. Classrooms are configured in a “pod” arrangement around multipurpose areas to facilitate the team-teaching approach. These flexible, multipurpose interior courtyards can be used for school-wide assemblies, student display areas, and other student activities. They are climate controlled with respect to Guam’s high temperatures, humidity, and often-adverse weather conditions. The gymnasium and the multipurpose courtyards maximize the use of natural light, and covered walkways are provided between buildings providing protection from frequent rainfall. As one of the largest facilities on the base, the school campus will become an important focal point for the community.



MERIT AWARD
MEDICAL/DENTAL CLINIC

CONCEPT GUIDES

LOS ANGELES AIR FORCE BASE, CALIFORNIA

DESIGN ORGANIZATION: SHERLOCK, SMITH AND ADAMS, INC.

COMMAND: AIR FORCE MATERIEL COMMAND

PROJECT MANAGER: AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE

DESIGN MANAGER: AIR FORCE MEDICAL SUPPORT AGENCY

DESIGN AGENT: ENGINEERING FIELD ACTIVITY WEST,
NAVAL FACILITIES ENGINEERING COMMAND

BASE ENGINEER: 61ST CIVIL ENGINEER SQUADRON

Situated on a prime location adjacent to one of the main entrances to the base, this new clinic will provide medical and dental services for all eligible active duty military personnel and their dependents in the Los Angeles area. Landscape features not only enhance the public parking area, but also focus attention on the centrally located main entrance to the clinic. This entrance features an arched, multi-tiered roof with clerestory windows admitting daylight into the two-story central lobby area. This central circulation space provides direct patient access to the Laboratory, Pharmacy, Patient Administration, Tricare, and Radiology. Additionally, the lobby accommodates information services, patient waiting, and visual control of the facility. Embracing the Air Force's new "Clinic of the Future" concept, the facility's functional areas are organized using a team approach, rather than isolating the individual clinic areas in the traditional manner. Circulation routes for staff and supplies are largely separated to allow smooth operations. Special attention was given to the exterior of the clinic to help "de-industrialize" its appearance while remaining compatible with other base facilities. The overall



Juror's Comments:

- Well organized and efficient circulation and floor plan
- Barrel vault provides a central focal point for entry and clerestory
- Good use of natural light



design theme of this clinic speaks clearly to the continuing commitment the Air Force has toward providing quality health services for its personnel and their families.

MERIT AWARD INTERIOR DESIGN

DORMITORY RENOVATION LOS ANGELES AIR FORCE BASE, CALIFORNIA

DESIGN ORGANIZATION: PACIFIC GENERAL, INC.

COMMAND: AIR FORCE MATERIEL COMMAND

BASE ENGINEER: 61ST CIVIL ENGINEER SQUADRON



This challenging project redesigned two existing dormitories built in 1918 to meet the Air Force's "1+1" dormitory configuration, and to comply with current seismic standards mandated by the State of California for historic buildings. All this was done without altering the exterior facades, retaining their original character. The new configuration captures a modern residential apartment environment within the existing structures while maintaining compatibility with adjacent base housing units. The new floor plan

Juror's Comments:

- Attractive, homelike furnishings selection
- Strong, functional floor plan
- Shared elements of suite are aesthetically pleasing

accommodates existing window openings, structural barriers, and stairs. Seismic retrofit of the buildings was accomplished by creating a perimeter bond beam by injecting grout into the cavities of the hollow clay tile walls. Roofs were effectively connected to the wall structures and shear walls were created. The plan maximizes the number of dormitory units that can be constructed within the constraints of an existing building. This exemplary project is an outstanding

example of successfully renovating historic buildings while meeting current criteria.



MERIT AWARD

COMPOSITE OPERATIONS AND TRAINING FACILITY

FACILITY DESIGN

HANCOCK FIELD AIR NATIONAL GUARD BASE, NEW YORK

DESIGN ORGANIZATION: QUINLIVAN PIERIK & KRAUSE, ARCHITECTS/ENGINEERS

COMMAND: AIR NATIONAL GUARD

DESIGN AGENT: U S PROPERTY AND FISCAL OFFICE FOR NEW YORK

BASE ENGINEER: 174TH FIGHTER WING/DE



Combining Command, administrative and Security Forces functions into a single, unified structure, this facility presents a balanced image to the external community and the internal Air National Guard Base. The plan effectively integrates the more public accessible areas with areas having greater security and privacy requirements, and the large mass of the structure is broken down through the use of multiple gable and bowed roof forms. These roof forms add visual interest while reflecting the building's interior organization. Natural light is effectively introduced deep into the interior through clerestory windows. A straightforward entry sequence that emphasizes the importance of the facility has been established through the plan's formality, the scale of public circulation spaces, and the building's relationship to exterior development. The compact plan and efficient layout maintains crucial functional adjacencies, while limiting circulation space

and increasing the ratio between usable area and the gross area of the building.



Juror's Comments:

- Consistent design and details
- Clear vernacular throughout
- Well organized plan with a defined axis
- Strong entry point, clearly defined and handsome

MERIT AWARD

FACILITY DESIGN

DORMITORY COMPLEX RENOVATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

DESIGN ORGANIZATION: THE LUCKMAN PARTNERSHIP

COMMAND: AIR FORCE SPACE COMMAND

BASE ENGINEER: 30TH CIVIL ENGINEER SQUADRON

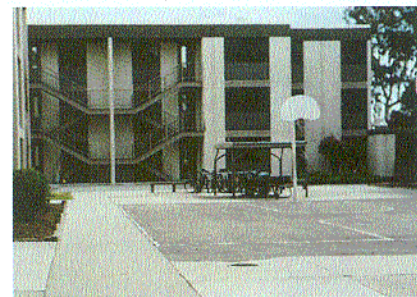


Starting with an extensive survey to gain insight into the occupants' lifestyles and preferences, this exemplary dormitory project converted four outdated central-latrine dormitories into a quality living environment meeting today's Air Force dormitory standards. Maximizing the reuse of the existing structures, the plan features apartment modules shared by two persons, with an adjoining laundry, kitchen, dining and balcony area shared with another two-person module. The central courtyard serves as the

Juror's Comments:

- Phenomenal transformation of previously underused outdoor space
- Good use of lighting and courtyard space
- Redefined floor plan easily accommodates seasonal changes in use

primary unifying element of the design. It is used extensively for group gatherings, and while intensely landscaped, the courtyard requires very little maintenance or irrigation. Of particular note is the involvement of the residents in the design process. Town meetings were held at various design stages to "fine tune" the project to reflect the resident's wishes as much as possible. Also, preliminary drawings were posted in the dormitory complex to keep the residents informed and provide additional opportunity for design input. The buy-in fostered by this process has resulted in tremendous pride of ownership, resulting in a significant drop in facility abuse. The strong preference to live in this dormitory rather than in the base's other dormitories stands



as testimony to the design's success. An outstanding example of facility reuse, this renovation effort cost only 53 percent of what a completely new dormitory would have cost.



MERIT AWARD FACILITY DESIGN
OUTDOOR RECREATION FACILITY SHAW AIR FORCE BASE, SOUTH CAROLINA

DESIGN ORGANIZATION: DRAKEFORD ARCHITECTS

COMMAND: AIR COMBAT COMMAND

DESIGN MANAGER: AIR FORCE SERVICES AGENCY

BASE ENGINEER: 20TH CIVIL ENGINEER SQUADRON



Formerly located in an antiquated World War II warehouse facility near the flightline, this modern facility accommodates the Outdoor Recreation function plus an adjacent Family Campground in a more compatible land use area. First in a series of projects to collocate compatible outdoor recreation facilities, this development provides an equipment checkout facility and a campground with a distinctively different atmosphere than the rest of the base. The Outdoor Recreation building's unique architectural style is reminiscent of National Park Service facilities of a century ago and features open, rustic interiors reflective of the outdoor experience. Sustainability is enhanced through the use of low maintenance materials, natural daylighting, underground utilities, and a low maintenance landscape design which incorporates the existing pine forest to the maximum extent.

Juror's Comments:

- Interesting use of exterior materials
- Design embodies the facility's function
- Very site-appropriate
- Dramatic integration of parking with surrounding environment



MERIT AWARD

FACILITY DESIGN

CHEMICAL TEST LABORATORY

VANDENBERG AIR FORCE BASE, CALIFORNIA

DESIGN ORGANIZATION: HOLMES AND NARVER SERVICES, INC.

COMMAND: AIR FORCE SPACE COMMAND

DESIGN AGENT: AIR FORCE MATERIEL COMMAND

BASE ENGINEER: 30TH CIVIL ENGINEER SQUADRON



Supporting Vandenberg Air Force Base's primary missile launch mission, this test laboratory performs the dual role of analyzing rocket fuels and performing environmental testing of potential pollutants and

Juror's Comments:

- Effective facelift to existing structure
- Numerous industrial requirements aesthetically addressed through detailing
- Interior laboratory spaces clean and defined

other hazardous materials. This new facility replaces an older substandard laboratory that had become an eyesore in a prominent location on the base and is carefully sited in respect to prevailing winds and potential dispersion patterns to minimize the possibility of a chemical accident impacting populated areas. While safety concerns override all other design factors, the structure provides a pleasant work environment while remaining well integrated into the context of its surroundings. Careful attention was given to proper treatment of the large quantity of essential roof-mounted mechanical equipment. Exhaust venting is consolidated through a limited number of well-detailed mechanical shafts, while a perimeter roof form effectively screens other equipment. A series of dormers serve as fresh air intakes for the laboratory spaces while helping the building convey a less industrial character. As the first new facility located in the industrial sector of the installation, this facility fully embraces Vandenberg's facility excellence standards and sets a benchmark for future industrial construction. This state-of-the-art facility is a shining example of excellent design applied to a function that traditionally receives little aesthetic attention, proving that industrial buildings and design excellence are not mutually exclusive. Functional



requirements are achieved while meeting some of the nation's most stringent environmental requirements.



MERIT AWARD

BASE CIVIL ENGINEER FACILITY

FACILITY DESIGN

MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT AIR NATIONAL GUARD BASE, MINNESOTA

DESIGN ORGANIZATION: ARCHITECTURAL ALLIANCE

COMMAND: AIR NATIONAL GUARD

DESIGN AGENT: US PROPERTY AND FISCAL OFFICE FOR MINNESOTA

BASE ENGINEER: 133RD CIVIL ENGINEER SQUADRON

Consolidating the operations, maintenance and readiness functions of the Base Civil Engineer, this new facility includes office space, classrooms, maintenance shops, general storage areas, mobility equipment storage, heated

vehicle storage, and staff support spaces. Located adjacent to a prominent open green space, the facility visually enhances and reinforces this area through the use of substantial building and parking area set-backs, appropriate landscaping, and using the building's mass to "anchor" a corner of the green space. Careful selection of materials and colors integrates the building with other base facilities. The main building entrance faces the open area, while shops and service functions are oriented toward the existing service areas of the base. The efficient plan and building volume concept clearly separates office and shop areas, with office spaces oriented towards desirable views. The central spine offers access to the classroom, office and shop space providing efficient circulation for full-time staff while accommodating the crush of additional partime staff on training weekends. Natural light is introduced into virtually all primary spaces within the facility through the central spine's linear skylight, the office area's window wall, or through a combination of



Juror's Comments:

- Effective siting of adjacent facilities and green spaces
- Great use of exterior materials and architectural elements
- Juxtaposition of elements with massing of brick and stretched-skin look of metal panels
- Durable materials
- Very efficient corridor

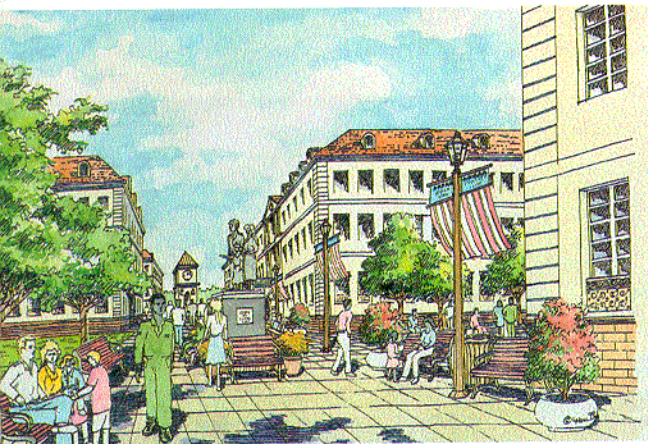


individual skylights and large transom windows in the shop and storage areas. Exceptional in its aesthetic application of low-maintenance materials, this energy-efficient facility will meet the needs of the installation for many years to come.

CITATION AWARDS

PLANNING STUDIES AND DESIGN GUIDES

COMMUNITY CENTER/DORMITORY AREA DEVELOPMENT PLAN



Juror's Comments:

- Dramatically improved solution to community center area
- Provides strong pedestrian links to all key community center functions
- Minimizes vehicular and pedestrian conflicts while maintaining a safe "small town center" feel

BARKSDALE AIR FORCE BASE, LOUISIANA

DESIGN ORGANIZATION: AIR COMBAT COMMAND DESIGN OFFICE
 COMMAND: AIR COMBAT COMMAND
 DESIGN AGENT: AIR FORCE MATERIEL COMMAND
 BASE ENGINEER: 2ND CIVIL ENGINEER SQUADRON

This plan provides a walkable, livable town center similar to that found in a small town, linking the Base Exchange, Commissary, Education Center, library, theater and other base community activities with a redesigned dormitory area. This new hub will connect to an education complex and to a campus incorporating six new dormitories. The plan retains the large warehouse for the Base Exchange in its present location but adds retail shops and a food court. The Education Center is within

easy walking distance to both the Base Exchange and dormitory campus, and combines several compatible functions. The theater can show movies and also be available for meetings and conferences, while the Education Center and the library can share computer systems and other common resources. The dormitories are arranged in "quads" that provide space for recreation and social events. Walkways connect the three main activity areas with each other and allow convenient access to the new fitness center. With this progressive plan, airmen's shopping, educational, recreational, and social needs can be met without having to leave the community center area or travel by automobile.

FACILITIES EXCELLENCE GUIDE 2000

AIR FORCE SPACE COMMAND

DESIGN ORGANIZATION: LIGHTLE AND FENNELL ARCHITECTURE



Juror's Comments:

- This facilities excellence guide is in-depth while communicating a wealth of data and information in a very concise highly visual format

It is critical that all Air Force Space Command personnel understand and embrace facilities excellence as a key element in implementing and promoting Installation Excellence. First published in 1994, this guide has been improved and updated, adding important new topics such as environmental stewardship, sustainable design, force protection, quality of life, mission facilities, and infrastructure systems. The guide has become the "measuring stick" the command uses in conducting its biannual AFSPC Facilities Excellence Recognition Program. Incorporating the latest Department of Defense, Headquarters Air Force, and Air Force Space Command policies, the guide focuses on positive goals presented in a professional, easily understood format. The guide itself is a fine example of design excellence, and is readily available in hardcopy and in multiple electronic formats. Buy-in by senior leadership has been promoted through endorsement by the AFSPC Commander and by briefing all Wing, Support Group, and Base Civil Engineer Commanders within the command.

CITATION AWARD

GENERAL PLAN

DESIGN ORGANIZATION: 30TH CIVIL ENGINEER SQUADRON
COMMAND: AIR FORCE SPACE COMMAND

This exceptional in-house product provides vital information to strategically plan and execute the optimum programming, design, construction, and resource management actions for the future development of Vandenberg Air Force Base. Its user-friendly format allows readers to clearly understand the existing character and structure of the installation and its development potential. The plan focuses upon protecting and preserving the base's unique coastal ecology in harmony with the built environment. Land use patterns are established that are compatible with each other and their surroundings, accommodating both the viability and the potential growth of the base's missions. The document recognizes the need for it to remain relevant, and takes full advantage of computer technology to maximize access to the plan. This helps immensely in making the plan easy to use, easy to update, and helps ensure the depth and accuracy of the information presented. It provides an ongoing, participative, and logical process for developing and revising its plans and goals, and can easily be updated by in-house personnel.

CITATION AWARD

DORMITORY AREA DEVELOPMENT PLAN

DESIGN ORGANIZATION: SWAIM ASSOCIATES, LTD., ARCHITECTS, AIA
COMMAND: AIR COMBAT COMMAND
BASE ENGINEER: 355TH CIVIL ENGINEER SQUADRON

Beginning with a three day planning charrette, this Area Development Plan delineates three distinct components: a demolition plan, a domino plan, and a construction plan. These components are scheduled for implementation in a least five phases. The intensive and interactive planning charrette gathered ideas, needs and concerns from senior leadership, dormitory residents, and other affected parties, allowing concepts to be developed and tested very quickly. The plan incorporates a Centralized Dormitory Area Concept focusing the living quarters inward towards a pedestrian-oriented circulation system. This circulation system replaces existing streets allowing convenient access between dormitories and to other nearby facilities. The concept embraces "apartment" style dormitories in lieu of traditional "motel" style structures, creating a more community-oriented living environment. Parking is shifted to the perimeter of the dormitory area, emphasizing the pedestrian-oriented core while meeting force protection requirements. When fully implemented, the dormitory area will provide a more cohesive residential community through the relocation of non-dormitory related facilities and concentrating the new dorms within the core of the planning area. This plan's methodology and concepts can easily be applied to other Air Force installations.

INTERIOR DESIGN

VANDENBERG AIR FORCE BASE, CALIFORNIA

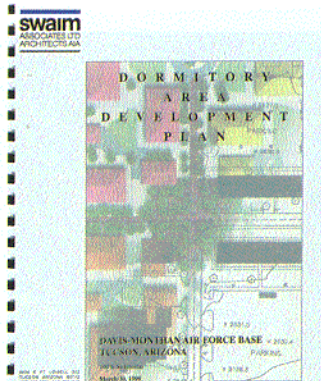


Juror's Comments:

- Depth and quality of consolidated data is exemplary
- Highly organized and user friendly format
- Professional quality visual graphics and photography

INTERIOR DESIGN

DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

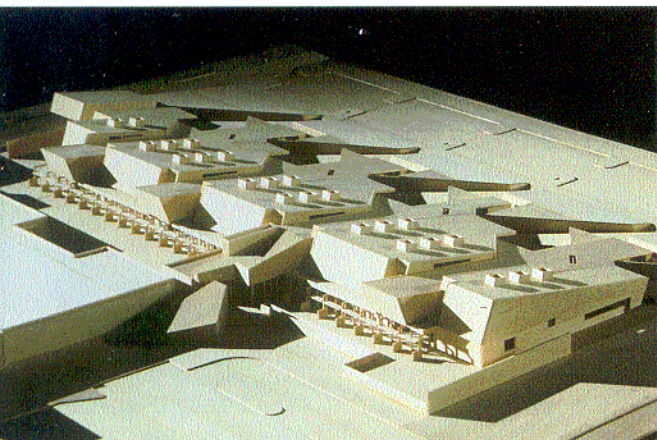


Juror's Comments:

- Strong creation of a pedestrian oriented centralized dorm area complex
- Clearly maintaining force protection standards & maintaining access for security forces, emergency and maintenance personnel
- Smoothly synthesized demolition plan, domino plan and construction plan into a seamless methodology for implementation

CITATION AWARDS

AMBULATORY HEALTH CARE CENTER



Juror's Comments:

- Interesting use of light wells
- Strong reference to noise control issues
- Bold geometric shapes help mitigate environmental concerns
- Responds well to natural elements of surrounding site

Incorporating repetitive forms and angles to reflect the rhythm of the adjacent aircraft storage area, this Ambulatory Health Care Center responds to its desert environment as it seemingly grows out of the earth with its roof gradually sloping upwards towards the sky. Filtered natural light is brought deep into the building's interior through skylights, while windows are shaded by deep roof overhangs and vertical louvers. A sheltered courtyard serves as the main entry, and additional courtyards are created along the building edge by earth berms that slope up to meet the roofline. Located adjacent to the existing base hospital, this new clinic will embrace the Air Force's "Clinic of the Future" concept that emphasizes wellness and patient-centered care. Multimedia Interaction Cubicles will allow patients to check themselves in, conduct their own self-assessment and self-screening, review and update their medical history, and make educational inquiries.

CONCEPT DESIGNS

DAVIS-MONTHAN AIR FORCE BASE, MONTANA

DESIGN ORGANIZATION: COLEMAN/CASKEY ARCHITECTS, INC.

COMMAND: AIR COMBAT COMMAND

PROJECT MANAGER: AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE

DESIGN MANAGER: AIR FORCE MEDICAL SUPPORT AGENCY

DESIGN AGENT: SACRAMENTO DISTRICT US ARMY CORPS OF ENGINEERS

BASE ENGINEER: 355TH CIVIL ENGINEER SQUADRON

DORMITORY COMPLEX



Juror's Comments:

- Well executed interior and public spaces
- Attractive front entry
- Visual access to public spaces is excellent

interiors offer a warm and inviting atmosphere, and the openness of the living environment provides contrast to the closed, secure work areas the residents occupy during work hours. Each dormitory room features a subtle, natural color palette that provides a warm yet relatively neutral backdrop upon which the residents may personalize their living space. Sustainability is enhanced through using durable, energy efficient construction materials to save utility and material costs.

BUCKLEY AIR NATIONAL GUARD BASE, COLORADO

DESIGN ORGANIZATION: RNL DESIGN

USING COMMAND: AIR FORCE SPACE COMMAND

HOST COMMAND: AIR NATIONAL GUARD

DESIGN AGENT: OMAHA DISTRICT US ARMY CORPS OF ENGINEERS

BASE ENGINEER: 821ST SPACE GROUP

Providing on-base accommodations for 268 young airmen in a high-cost area, this complex incorporates living, dining, and recreational functions on a constrained site. The design successfully integrates a new dormitory and aerobics building with an existing dining hall to create a unified residential campus. The complex is architecturally compatible while staying within the height restrictions imposed by the nearby flightline. The

CITATION AWARD

NONCOMMISSIONED OFFICERS' CLUB

DESIGN ORGANIZATION: ARCHITEKTUR BUERO CAMMISAR

COMMAND: UNITED STATES AIR FORCES EUROPE

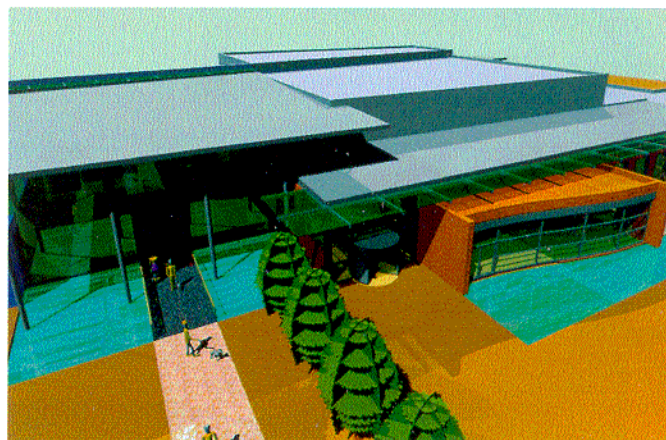
DESIGN MANAGER: AIR FORCE SERVICES AGENCY

BASE ENGINEER: 86TH CIVIL ENGINEER SQUADRON

Replacing an existing Enlisted Club that is economically beyond repair, this new facility will provide an exciting variety of dining and entertainment activities. These include a large, high energy restaurant and night club, a smaller restaurant for more formal dining, a sports bar, a game area, and space for a commercial chain restaurant. Effectively integrated into the overall design, these public areas are supported by state-of-the-art food service areas. Careful attention was given to optimizing workflow between the service, kitchen, dining and administration areas of the building. Its progressive, cutting-edge design will establish the new NCO Club as a superior addition to the installation. The exterior façade effectively communicates the nature of the activities within.

CONCEPT DESIGN

RAMSTEIN AIR BASE, GERMANY



Juror's Comments:

- Bold use of geometric forms and fenestration
- Innovative use of space
- Juxtaposition of materials and massing
- Plan is oriented to maximize exterior views

CITATION AWARD INTERIOR DESIGN

PHYSICAL FITNESS CENTER

DESIGN ORGANIZATION: KBJ ARCHITECTS, INC.

COMMAND: AIR COMBAT COMMAND

DESIGN AGENT: ENGINEERING FIELD DIVISION SOUTH,
NAVAL FACILITIES ENGINEERING COMMAND

BASE ENGINEER: 2ND CIVIL ENGINEER SQUADRON

This new Physical Fitness Center relocates fitness activities for Barksdale Air Force Base from the flightline area, allowing the flightline to be more appropriately used for aircraft operations. Located on a former housing site between the historic district of the base and the newer Community Center, this design effectively serves as a transition between the old and the new. Sensitive detailing and ornamentation reflects the base's heritage while fully complying with the Architectural Compatibility Standards of the base. The building is sited to accommodate the area's master plan which will add related fitness and recreational activities in the future. The design places major emphasis on its many features which support sustainability, and will be a showcase model for Air Force sustainable design and technology initiatives. Sustainable features include natural daylighting, rainwater harvesting and reuse, regulated energy consumption, and high efficiency mechanical and lighting systems. Of particular note is the inclusion of an environmental consultant in the design review process.

BARKSDALE AIR FORCE BASE, LOUISIANA

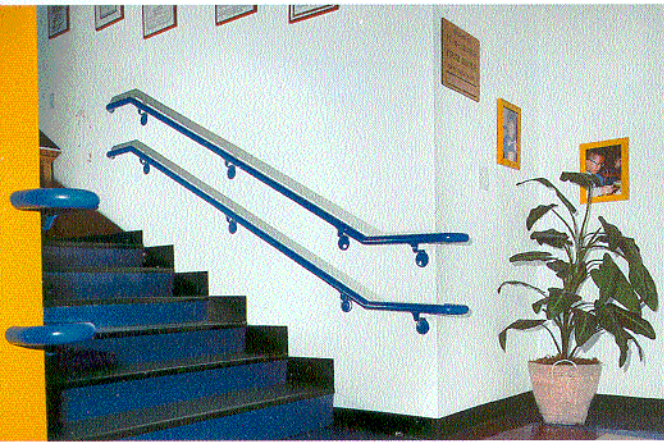


Juror's Comments:

- Form and function very well matched
- Main space allows light deep into the interior
- Simple reference to traditional Air Force forms and functions

CITATION AWARD

BEFORE AND AFTER SPACE SCHOOL



Juror's Comments:

- Playful environment for children through the use of color and materials
- Existing structure was embraced and augments the adaptive reuse of the building
- Well balanced use of primary colors

INTERIOR DESIGN

LOS ANGELES AIR FORCE BASE, CALIFORNIA

DESIGN ORGANIZATION: TRENDTEC

COMMAND: AIR FORCE MATERIEL COMMAND

BASE ENGINEER: 61ST CIVIL ENGINEER SQUADRON

The goals for this design were to provide for the before and after school care of elementary school-age children by providing a cheerful, bright and open space within the physical constraints of an existing building. Additionally, the design must meet Americans with Disabilities Act requirements, special requirements for childcare and educational facilities, and all State and Federal energy standards. A unique blend of bright, primary colors contrasts with the original heavy timber structure of the

building and emphasizes the youthful nature of the space. Natural light was introduced into the facility by replacing the front entrance with a glass storefront system. Heating and air-conditioning ducts, electrical conduit, and fire sprinkler lines are left exposed and are painted in primary colors to relate to the overall scheme, and become the aesthetic design elements of the space. This renovation has resulted in an increased number of children being accommodated due to increased capacity, and provides an efficient, permanent facility which will serve the client's needs for many years to come. This Before and After School space will eventually be expanded to relocate the entire Youth Center into adjacent unused spaces, and the interior design scheme will be incorporated into the expansion.

CITATION AWARD

JET ENGINE SHOP ADDITION AND RESTORATION



Juror's Comments:

- Creative use of color to accentuate elements of maintenance space
- Efficient use of space for maintenance function
- Good detailing of industrial interiors

FACILITY DESIGN

RAF LAKENHEATH, UNITED KINGDOM

DESIGN ORGANIZATION: TRENDTEC

COMMAND: AIR FORCE MATERIEL COMMAND

BASE ENGINEER: 61ST CIVIL ENGINEER SQUADRON

DESIGN ORGANIZATION: WSP NORTH, LTD.

COMMAND: UNITED STATES AIR FORCES, EUROPE

DESIGN AGENT: DEFENCE ESTATES, US FORCES

BASE ENGINEER: 48TH CIVIL ENGINEER SQUADRON

Using joint USAF and NATO funding, this entry combines two projects into one construction effort. The existing engine repair facility had become inadequate both in its work environment and its available floor space to meet increasing engine repair and maintenance requirements.

The design solution provides for the total upgrade of the existing facility along with a 43,000 square foot addition. The building's shell received a new insulated metal panel cladding system, and the entire facility was fitted with a radiant tube heating system. Bright interior colors work with natural day lighting to enhance the work environment. This renovation and addition is a great example of applying good, straightforward design to improve working conditions and efficiency in an industrial facility.

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HQ Air Force Center for Environmental Excellence
Brooks Air Force Base, Texas
Interior Designer

DESIGN ORGANIZATION: SETTER, LEACH & LINDSTROM, INC.

COMMAND: AIR COMBAT COMMAND

BASE ENGINEER: 5TH CIVIL ENGINEER SQUADRON

PHOTOGRAPHY/ARTIST RENDERING

pages 3-4	DCSW Architects, Inc.
pages 5-6	Setter, Leach & Lindstrom, Inc.
pages 7-8	Zeck Butler Architects
pages 9-10	Zeck Butler Architects
pages 11-12	Shields-Marley Photography
pages 13-14	Action Photo
pages 15-16	Barbara White
page 17-18	Ken Graham
page 19-20	CNB Design
page 21	Bruce Duncan, GRW, Inc.
page 22	Lantz-Boggio Architects
page 23	Bon Hui-Uy/Jimmy Tablante
page 24	Walter Vail
page 25	Pacific General, Inc.
page 26	Timothy J. O'Shea
page 27	Ken Chen Photography
page 28	Don F. Wong Photography
page 29	Ken Chen Photography
page 30, top	30th Communications Squadron
page 30, bottom	Swaim Associates, Ltd., Architects, AIA
page 31, top	Waller, Todd & Sadler/Cityscapes
page 31, bottom	James R. Fennell, AIA
page 32, top	John Connell
page 32, bottom	Ed Lacass
page 33, top	Architektur Buero Cammisar
page 34, bottom	Kinsey Associates
page 35, top	TrendTec
page 36, bottom	Buttermark Studios

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