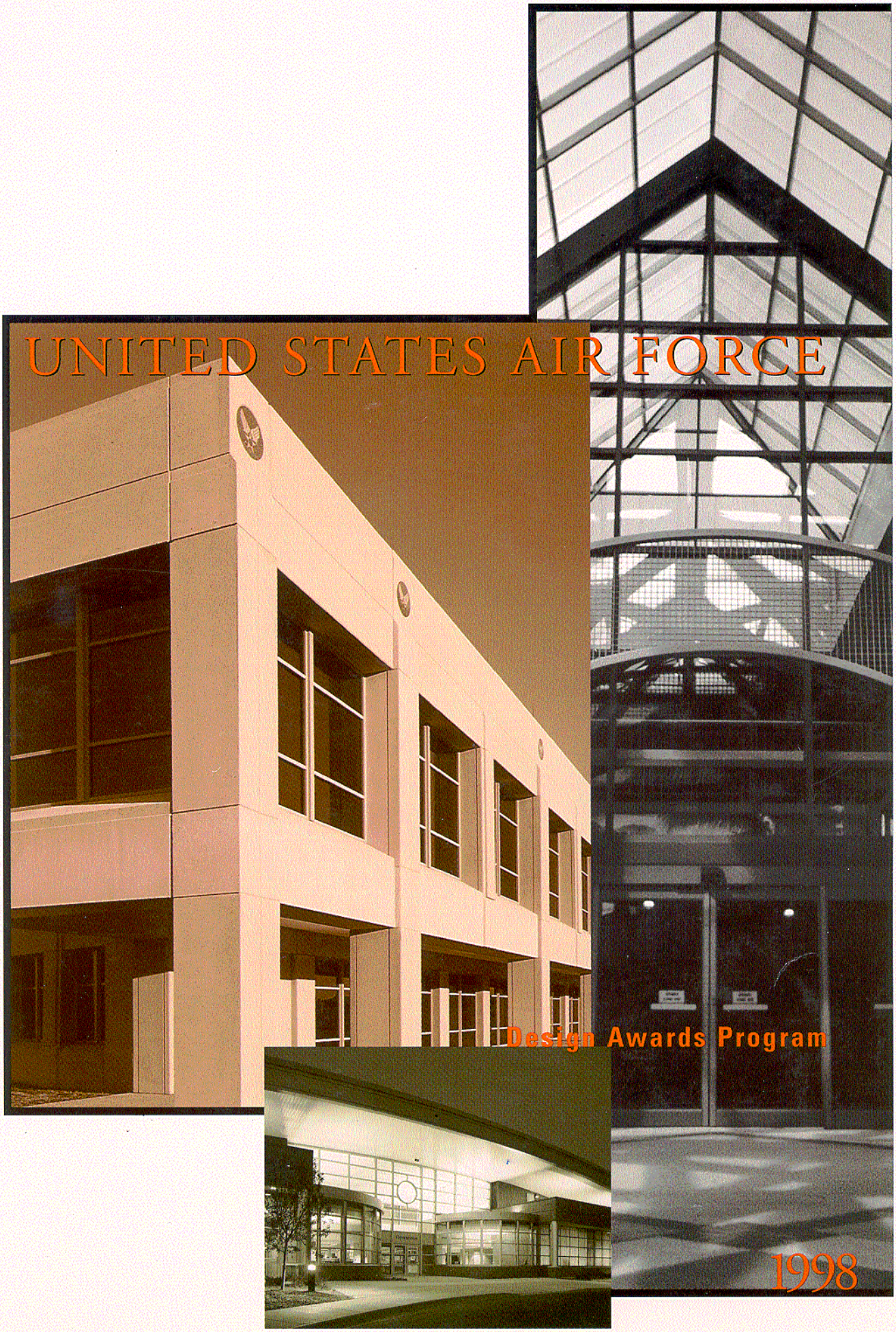
UNITED STATES AIR FORCE



Design Awards Program

1998

UNITED STATES AIR FORCE

The Air Force takes great pride in its installations. We consider them 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.

The winning entries presented in this document exemplify the quality design we seek for all Air Force projects. We must be good administrators of our resources, and these projects indicate that quality is emphasized at all phases of the design process.

No single individual was solely responsible for any of these exemplary projects. The Air Force works as a team, and the Design Awards Program is an important instrument we use to recognize the teamwork within our agency as well as the partnerships we have forged with the design and construction community.

I view this program as more than a contest. This brochure is an essential tool we utilize 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.

Eugene A. Lupia
Major General, USAF
The Civil Engineer

DESIGN AWARDS PROGRAM

Background

This Annual Report marks the twenty-third year of the United States Air Force Design Awards Program which 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 Studies and Design Guide entries, the Housing Community Plans, and the Landscape Design submittals were reviewed by a jury composed of a private sector landscape architect, a community planner from the Defense Commissary Agency, and an Air Force landscape architect. Two members of the International Interior Design Association reviewed the Interior Design submittals. The Architectural/Engineering jury composed of a private sector architect, an engineer representing the Society of American Military Engineers, a university architecture professor, and an Air Force architect, reviewed all other categories.

With the selection of this year's award winning projects, the Air Force has honored one hundred twenty-eight completed facilities, ninety-five concept projects, forty-two planning and landscape design projects, and thirty-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. It is widely recognized throughout the federal government and is supported by the enthusiastic participation of notable professionals in the private sector.

JURY MEMBERS

PLANNING, URBAN DESIGN, LANDSCAPE ARCHITECTURE

Mr. Burt Landry, Col USAFR (Ret.) (Chair)
Defense Commissary Agency
Lackland AFB, Texas
Planner

Mr. Larry Clark, ASLA
Bender Clark Wells
San Antonio, Texas
Landscape Architect

Ms. Brenda Langheld, ASLA
Air Force Center for Environmental Excellence
Brooks Air Force Base, Texas
Landscape Architect

ARCHITECTURE AND ENGINEERING

Mr. Mike McKelvy, AIA (Chair)
Lockwood Green
Dallas, Texas
Architect

Fred Eng, Col, USAF
HQ USAF/ILEC
Headquarters, United States Air Force
Washington, DC
Architect

Mr. Ron Graf, P.E.
San Antonio Water System
San Antonio, Texas
Engineer

Professor Rodney Hill, AIA
Texas A&M University
College Station, Texas
Architect

INTERIOR DESIGN

Mr. Tony Waller, IIDA (Chair)
General Services Administration
Washington, DC
Interior Designer

Ms. Sandra W. Warner, IIDA
Air Force Center for Environmental Excellence
Brooks Air Force Base, Texas
Interior Designer

HONOR AWARDS

PLANNING STUDIES AND DESIGN GUIDES
Community Center Area Development Plan
Youngstown Air Reserve Station, Ohio

CONCEPT DESIGN
Aeromedical Clinic
Andersen Air Force Base, Guam

INTERIOR DESIGN
Health and Wellness Center
Eglin Air Force Base, Florida

LANDSCAPE DESIGN
Peacekeeper Park/Tour of Time
RAF Lakenheath, United Kingdom

FACILITY DESIGN
BXtra Open Air Mall
Hickam Air Force Base, Hawaii

Composite Dining and Medical Training Facility
Vermont Air National Guard, Burlington, Vermont

Composite Squadron Operations/Aeromedical Evacuation Facility
Minneapolis-St. Paul International Airport, Minnesota

MERIT AWARDS

PLANNING STUDIES AND DESIGN GUIDES
Master Plan, B-1B Beddown
Robins Air Force Base, Georgia

CONCEPT DESIGN
C-17 Maintenance Training Facility
McChord Air Force Base, Washington

West Missile Range Operational Control Center
Vandenberg Air Force Base, California

Consolidated Base Support Complex
Ellsworth Air Force Base, South Dakota

INTERIOR DESIGN
Courtroom Renovation
Wright-Patterson Air Force Base, Ohio

LANDSCAPE DESIGN
Iditarod Dining Facility Landscaping
Elmendorf Air Force Base, Alaska

Dormitory Complex Renovation
Vandenberg Air Force Base, California

MERIT AWARDS (cont.)

FACILITY DESIGN
Consolidated Support Facility
Hickam Air Force Base, Hawaii

Acquisition Management Complex Phase III
Wright-Patterson Air Force Base, Ohio

Child Development Center
United States Air Force Academy, Colorado

CITATION AWARDS

PLANNING STUDIES AND DESIGN GUIDES
General Plan
Bolling Air Force Base, District of Columbia

CONCEPT DESIGN
Central Heating Plant Renovation
Andrews Air Force Base, Maryland

Passenger Terminal
Ramstein Air Base, Germany

Honor Guard Dormitory & Indoor Training Complex
Bolling Air Force Base, District of Columbia

INTERIOR DESIGN
Historic Dormitory Interior Renovation
F.E. Warren Air Force Base, Wyoming

Air Force Global Weather Center Heritage Hall
Offutt Air Force Base, Nebraska

LANDSCAPE DESIGN
Basewide Landscape Designs
Hickam Air Force Base, Hawaii

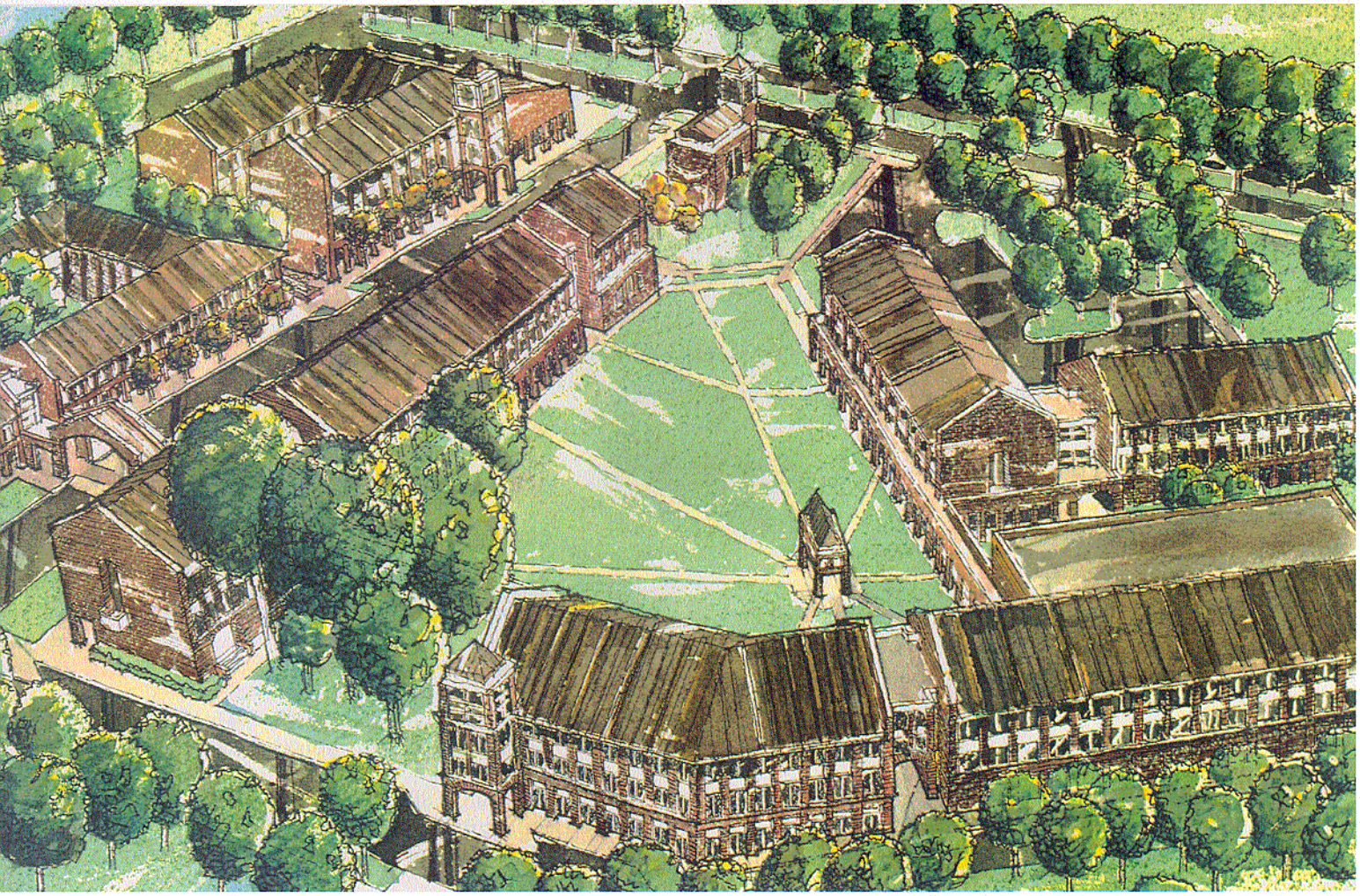
Air Power Pavilion
Langley Air Force Base, Virginia

FACILITY DESIGN
Joint Mobility Complex
Elmendorf Air Force Base, Alaska

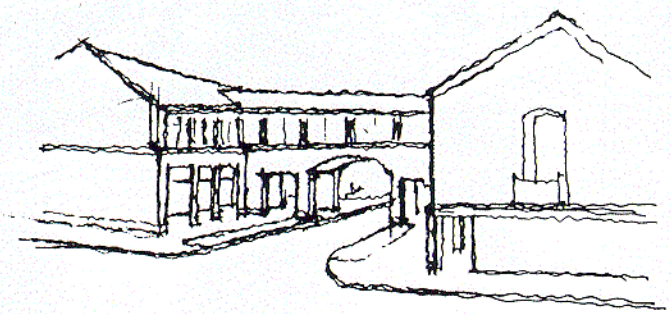
Small Arms Firing Range Renovation
Minneapolis-St. Paul International Airport
Air Reserve Station, Minnesota

HONOR AWARD

Planning Studies + Design Guides



Traditional Air Force base planning focuses on vehicular rather than pedestrian circulation, and while most installations have somewhat constant rates of utilization for their facilities, Air Force Reserve Command's facilities experience heavy usage on training weekends. This innovative plan represents a radical departure from tradition in that Community Center facilities are condensed into a common area. When reservists come to the base for a weekend, the majority of functions they require will be available well within walking distance. While lodging is traditionally separated from retail services, dining facilities and conference centers, occupants need only travel downstairs to access these functions. A campus theme prevails in this concept where outdoor "rooms" are created through sensitive placement and massing of structures. Appropriate building set-backs, building orientations, hinged connections, and innovative mixed-use arrangements combine to create an intimate neighborhood. Not only does this plan represent progressive design concepts, it also suggests a logical implementation plan which will enable the station to realize increased efficiency and overall quality-of-life.



Community Center Area Development Plan
Youngstown Air Reserve Station, Ohio

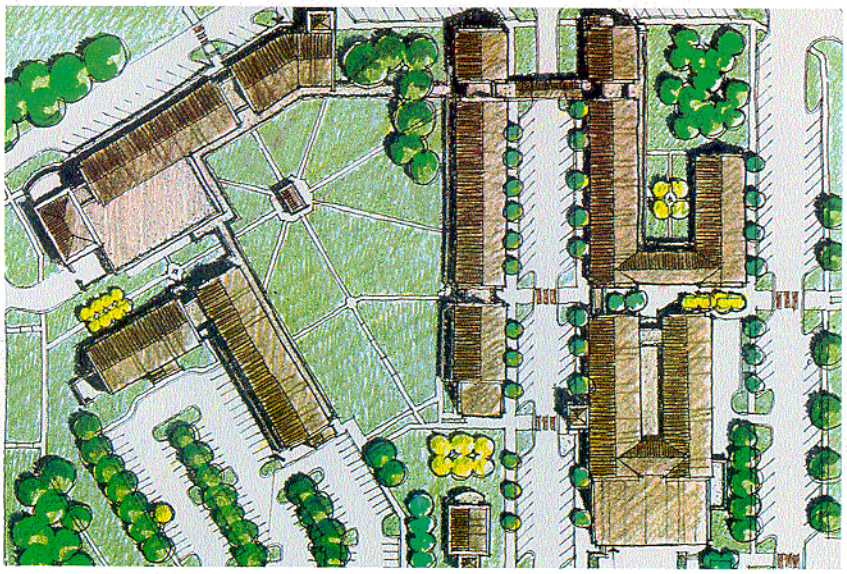
Design Organization: Air Force Institute of Technology/CE, Wright-Patterson Air Force Base, Ohio

Command: Air Force Reserve Command

Design Agent: Air Force Center for Environmental Excellence

Base Engineer: 910th Civil Engineer Squadron

Customer: 910th Support Group

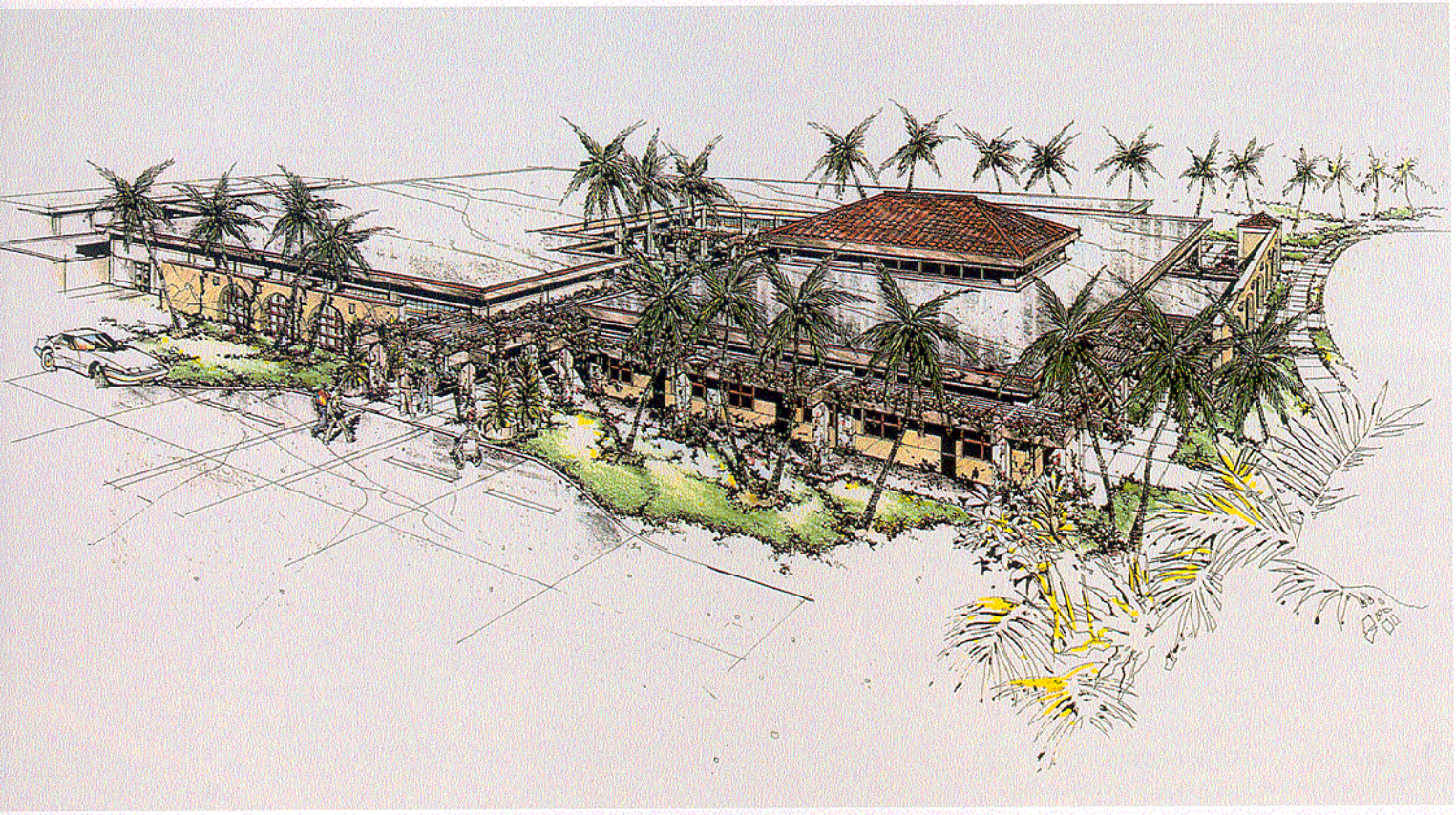


Jurors' Comments

"A premier example of the charrette process involving an inter-disciplinary team and the community. Clearly defines methodology of the design process through concise, distinct, graphical explanation. Dynamic integration of mixed-use facilities. Thoughtful, careful siting layout and detailing in a true campus setting."

HONOR AWARD

Concept Design



Combining three separate functions into a single facility presented a challenge to the designers of this consolidated clinic. Flight Medicine, Military Public Health, and Bio-Environmental Engineering are brought under one roof in a facility that conforms to Andersen Air Force Base's mandated Spanish style architecture. A ten-day interactive design process was incorporated to gain input from a number of interested parties. The resulting design is simple in concept, yet presents a subtle transition between itself and the existing medical center through the use of free standing arcade screen walls with arched openings. A new entry and courtyard between the existing medical center and the new clinic features covered walkways, columns, and a trellis to provide visual consistency. These elements work together to identify the new clinic and the existing building as an integrated medical complex.

Aeromedical Clinic
Andersen Air Force Base, Guam

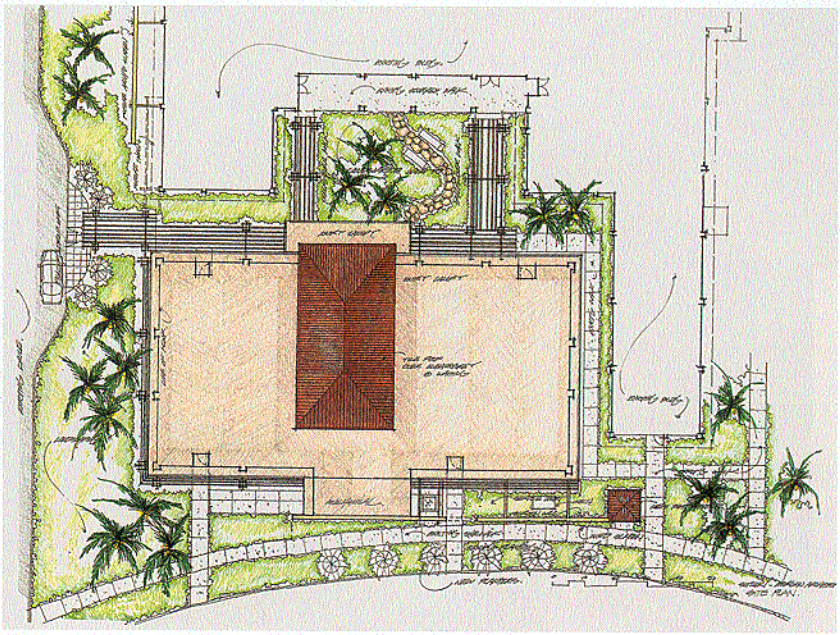
Design Organization: Suzuki/Morgan Architects, Ltd., Honolulu, Hawaii

Command: Pacific Air Forces

Design Agent: Naval Facilities Engineering Command, Pacific Division

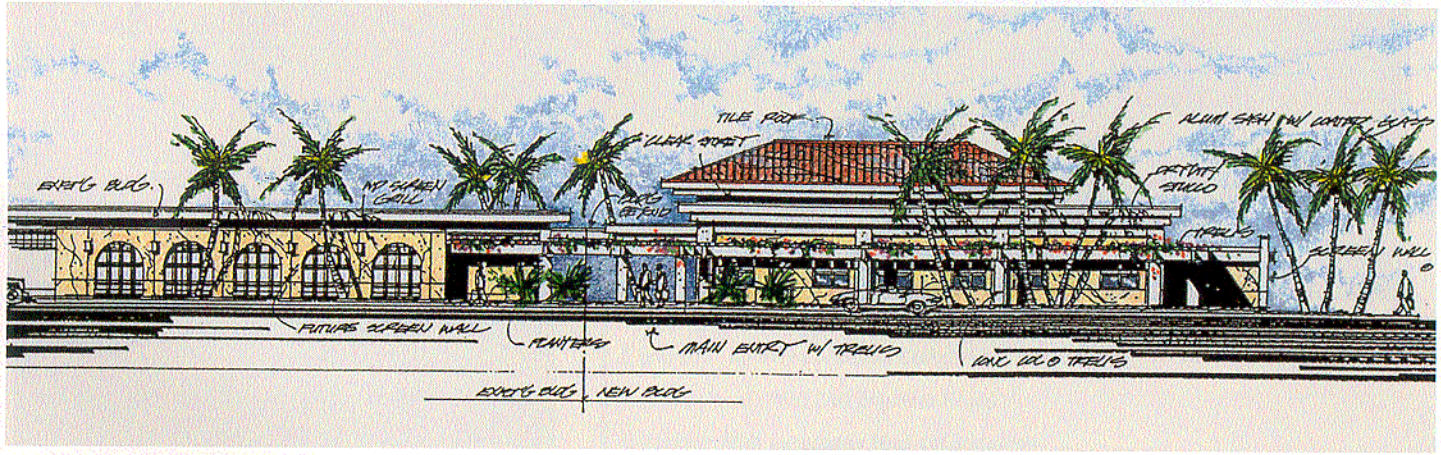
Base Engineer: 36th Civil Engineer Squadron

Customer: 36th Medical Squadron



Jurors' Comments

"Excellent scale and use of materials. A good, pleasing exterior that blends well with the location. A "fun" yet intricate design based on a simple, functional plan."



HONOR AWARD

Interior Design

An outstanding example of adaptive reuse and improving the quality-of-life for Air Force personnel, this new, state-of-the-art Health and Wellness Center was created from an underutilized Airmen's Club. The design meets its goal of providing an environment to increase morale, raise productivity, and foster healthy lifestyles. The building's original décor featured low lighting levels and dark color schemes appropriate for a club but far from ideal for a health and wellness center. Incandescent lighting was replaced with contemporary fluorescent fixtures, white paint and primary accent colors were used to open and brighten the dark, drab interior, and the old kitchen and serving line were converted into accessible locker rooms. Low-maintenance vinyl composition tile was chosen for most floor areas while special athletic flooring was installed in the aerobic classroom. The facility achieves the Air Force's goal of "understated excellence" by providing a safe, functionally efficient, and attractive environment that is responsive to user needs while projecting a professional image.

Jurors' Comments

"This project takes an existing Airmen's Club and transforms it into an exciting health and wellness center on a shoestring budget. The designers used creativity and innovation in developing an environment that is fun to "work-out" in. Dynamic use of color - painting the ductwork and structural members has created sculptural elements."

Health and Wellness Center
Eglin Air Force Base, Florida

Design Organization: Caldwell Associates, Pensacola, Florida

Command: Air Force Materiel Command

Base Engineer: 96th Civil Engineer Group

Customer: 96th Aerospace Medical Squadron

HONOR AWARD

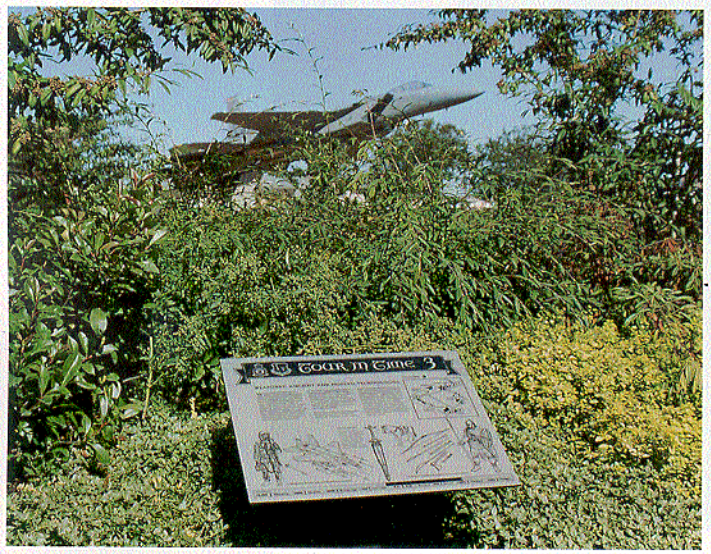
Landscape Design

Combining educational, recreational, and environmental concerns was successfully accomplished in this unique two-fold project. Peacekeeper Park provides recreational opportunities in a delicate historical and environmentally sensitive area. Numerous archaeological surveys have identified deposits in the park dating back as early as 5000 B.C., with a high density of finds from the early Roman and Saxon periods. Additionally, the area is home to many plant and animal species, some of which are protected. Thirty-four bird species, twenty-eight varieties of grasses, and two distinct woodland areas populate the area. Sensitive arrangement of new paths, benches, a picnic pavilion, fencing, a footbridge, and landscaping avoids conflict with archaeological and environmental sites. Having suffered from years of drought and water level decline, the project team used the area's natural materials to line the pond edge, thereby maintaining sufficient water level to support the habitat. Debris was cleared to promote a thriving environment.

The "Tour of Time" features nine interpretive stations, one of which is located in the park. The tour not only promotes environmental protection of the base's ancient and rich archaeological heritage, it provides a tangible history lesson about this cultural legacy to adults and children alike. Each panel provides a comparison between some aspect of ancient cultural life with the present. The panels are placed adjacent to an archaeological find or the modern day equivalent. For example, a plaque depicting ancient weaponry is located beside a static display of a modern fighter aircraft, while another focusing on medicine is situated adjacent to the hospital and describes ancient human remains discovered nearby. The plaque also depicts medicinal herbs used by ancient cultures. Panels are etched, providing a short narrative, a timetable, and graphics that can be "rubbed" producing a keepsake of each cultural resource. This project has already proven a successful educational tool and serves as a model for other installations.

Jurors' Comments

"Excellent example of an interactive, interpretive, educational and archaeologically significant renovation project. Consideration of the highly sensitive environmental and archaeological constraints is a key factor in the plan, which achieved low cost by using in-house resources. Appropriate level of site development maximizing existing site conditions."



Peacekeeper Park/Tour of Time
RAF Lakenheath, United Kingdom

Design Organization: Camas Aggregates, Cambridge, United Kingdom

Command: United States Air Forces Europe

Design Agent: Defense Engineering Organization - US Forces

Base Engineer: 48th Civil Engineer Squadron

Customer: 48th Fighter Wing

HONOR AWARD

Facility Design

Expanding AAFES retail marketing at Hickam Air Force Base required a new addition to the existing Base Exchange which implements new marketing concepts within existing site constraints. The resulting "open air mall" became the design vehicle to address the desired image, identify the entry and public spaces, and act as an organizing element between new and existing structures. The mall's architectural expression is sensitive to the base's historical character and the scale of adjacent neighborhoods. Open air pavilions provide scale and interest to the mall and serve to clarify circulation patterns. Careful detailing reinterprets existing Art Deco motifs through the use of vertical relief at each structural bay with horizontal banding between. The decorative light sconces and rainwater leaders provide visual rhythm to the exterior façade, and extensive landscaping provides visual buffers, residential scale, and enhances pedestrian and vehicular circulation.

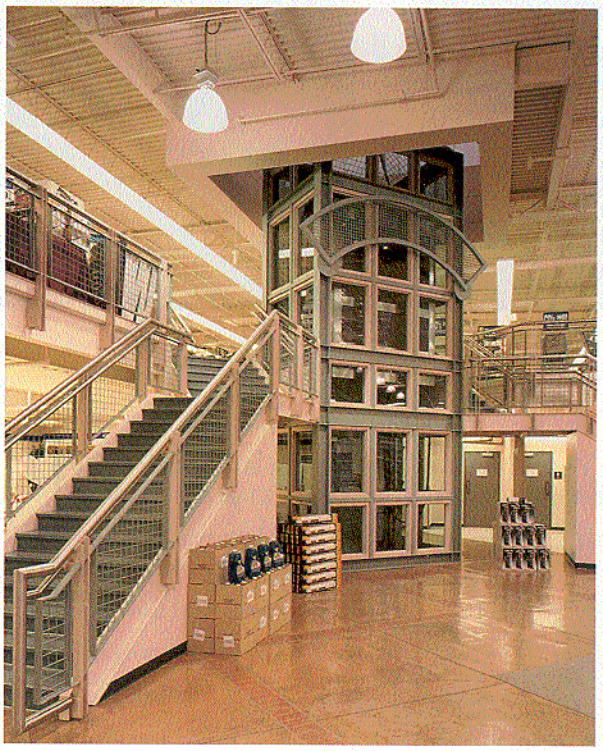
BXtra Open Air Mall
Hickam Air Force Base, Hawaii

Design Organization: ALSC Architects, Spokane, Washington

Command: Pacific Air Forces

Base Engineer: 15th Civil Engineer Squadron

Design Agent and Customer: Army Air Force Exchange Service



Jurors' Comments

"Incredible use of details and materials. Wonderful play of light and shadows. Responds well to the Hawaiian theme while presenting an inviting appearance to the community."

HONOR AWARD

Facility Design

Combining two very diverse functions in a single facility presented special challenges to the design team. The wooded and steeply sloped site is ideal for such a facility. The Medical Training area is located on the lower level while the Dining Hall occupies the upper level. Although joined on one end by a monumental curved staircase, each functional area enjoys the benefits of a strong and distinctive grade-level public entry. The curved stair tower is expressed on the exterior as a strong counterpoint to the basic building volume.

Extensive service access areas for each function, including a covered loading dock for the kitchen, are organized out of public view. The entry to the upper level dining facility is marked by an existing decommissioned F-102, and the building's elevation is deliberately understated to provide a backdrop for this static display. The entry opens onto a dramatic, naturally lit, single-loaded corridor that also serves as the waiting area to the dining hall. An increase in the number of meals served in the dining hall is testimony to the success and popularity of the facility. The medical squadron has experienced increased management efficiency and communication due to the building's superb space planning. This striking building has been cited as a great recruiting and retention tool for the Air National Guard.

Jurors' Comments

"Great interior detailing- superior in its sensitivity. Project came in under budget. The interior is just as exciting as the exterior with good use of varied textures. Dynamic and creative use of geometric shapes creates an especially enjoyable visual experience. Especially like the use of deep eaves and brackets."

Composite Dining and Medical Training Facility
Vermont Air National Guard, Burlington, Vermont

Design Organization: Smith-Alvarez-Sienkiewycz, Architects PC, Burlington, Vermont

Command: Air National Guard

Design Agent: US Property and Fiscal Office for Vermont

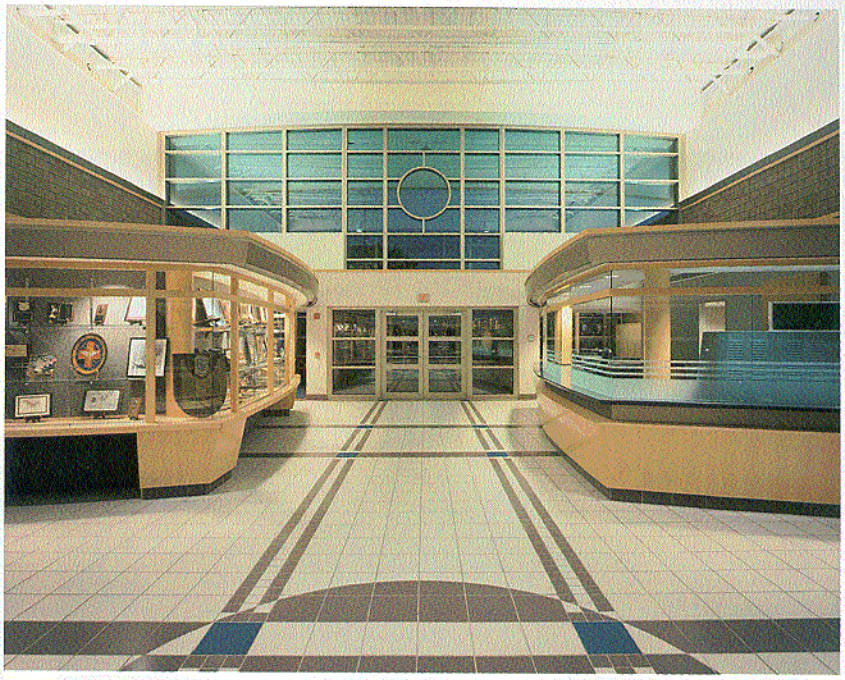
Base Engineer: 158th Civil Engineer Squadron

Customers: 158th Services Flight/158th Medical Squadron

HONOR AWARD

Facility Design

This new focal point for the Air National Guard Base consolidates three major tenant organizations into a common facility. Although the major functional divisions of the facility are located in separate areas, each is fully integrated into the facility to promote efficiency, communication, and the sharing of common spaces. Serving as the reception point for all aircrews and passengers on daily, cross country and transient flights, it is also a training facility providing classrooms and equipment training areas supporting the tactical airlift mission. The design exhibits a strong, dominant image within the context of the site and surrounding buildings. Low frequency aircraft noise is effectively mitigated by the building's dense shell, while clerestory daylighting techniques illuminate the interior spaces. Public and non-public areas are effectively isolated from each other. The non-public flight operations area is appropriately oriented to allow good visual cues to flightline while the open office area of the building is located away from the flightline to take advantage of daylighting and views toward the wooded areas of the base.



Composite Squadron Operations/Aeromedical Evacuation Facility
Minneapolis-St. Paul International Airport, Minnesota

Design Organization: Boarman Kroos Pfister Vogel & Associates, Minneapolis, Minnesota

Command: Air National Guard

Design Agent: US Property and Fiscal Office for Minnesota

Base Engineer: 133rd Civil Engineer Squadron

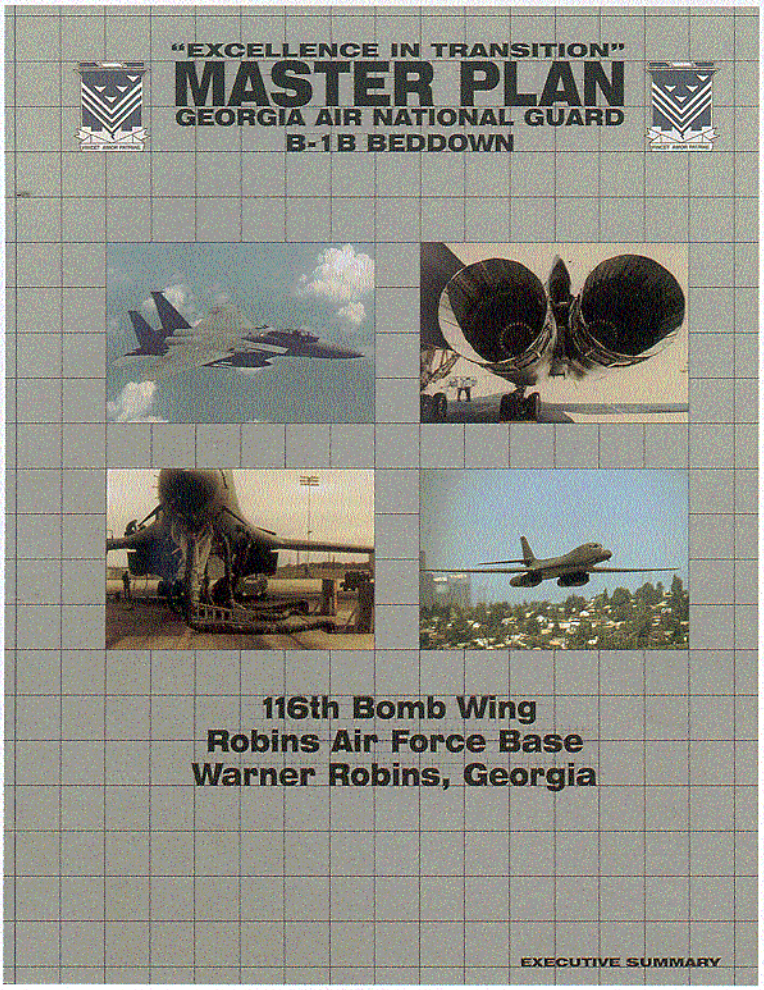
Customers: 133rd Operations Group, 109th Aeromedical Evacuation Squadron, 109th Airlift Squadron

Jurors' Comments

"The interiors are a direct outgrowth of the exterior features of the building - very well thought-out all the way through. A daring, bold concept with wonderful use of materials and superior lighting. An overall integrated design. Superb entry identification and good use of linear scale. The designers were able to incorporate the symbolic arch on a grand scale, resulting in a very sophisticated design."

Jurors' Comments

"Excellent job of integrating a new mission beddown into an existing base plan. It will vastly improve the appearance of the installation as viewed from public roadways. Thorough analysis of alternatives coupled with excellent graphics effectively and simply communicate the plan."



Master Plan, B-1B Beddown, Robins Air Force Base, Georgia

Design Organization: GRW/Rosser (A Joint Venture), Lexington, Kentucky

Using Command: Air National Guard

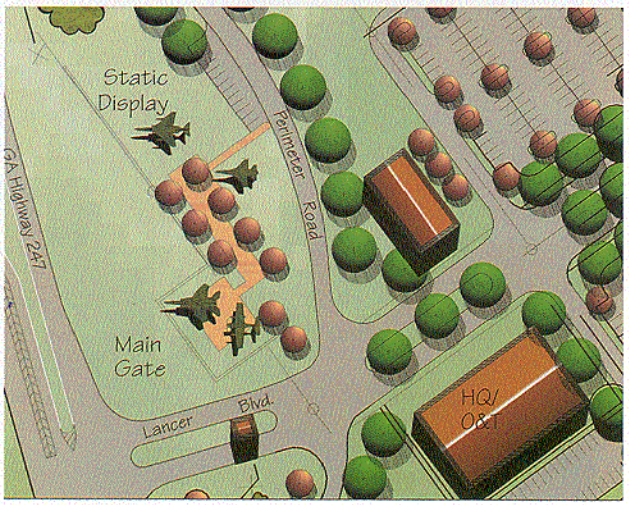
Host Command: Air Force Materiel Command

Design Agent: Savannah District US Army Corps of Engineers

Base Engineer: 116th Air Base Wing/CE

Customer: 116th Fighter Wing

Relocating an entire fighter wing to a new location presents enormous challenges as well as great opportunities. This plan transitions the Georgia Air National Guard's 116th Fighter Wing from Dobbins Air Reserve Base to the Robins Air Force Base flightline. Exemplary in its thoroughness, the plan is the result of a very controlled process. Many alternative solutions were fully explored, advantages and disadvantages were weighed, and the best solutions to the design parameters were finally proposed. The design meets its original goals of contributing to unit pride, readiness, creativity and productivity. Its user-friendly character is reflected in the plan's flexibility to meet changing mission needs, and was based on intensive user surveys and interviews. This process resulted in mass buy-in and excitement regarding this difficult beddown initiative.



C-17 Maintenance Training Facility
McChord Air Force Base, Washington

Design Organization: WJA, P.S., Seattle, Washington

Command: Air Mobility Command

Design Agent: Seattle District US Army Corps of Engineers

Base Engineer: 62d Civil Engineer Squadron

Customer: 62d Operations Group

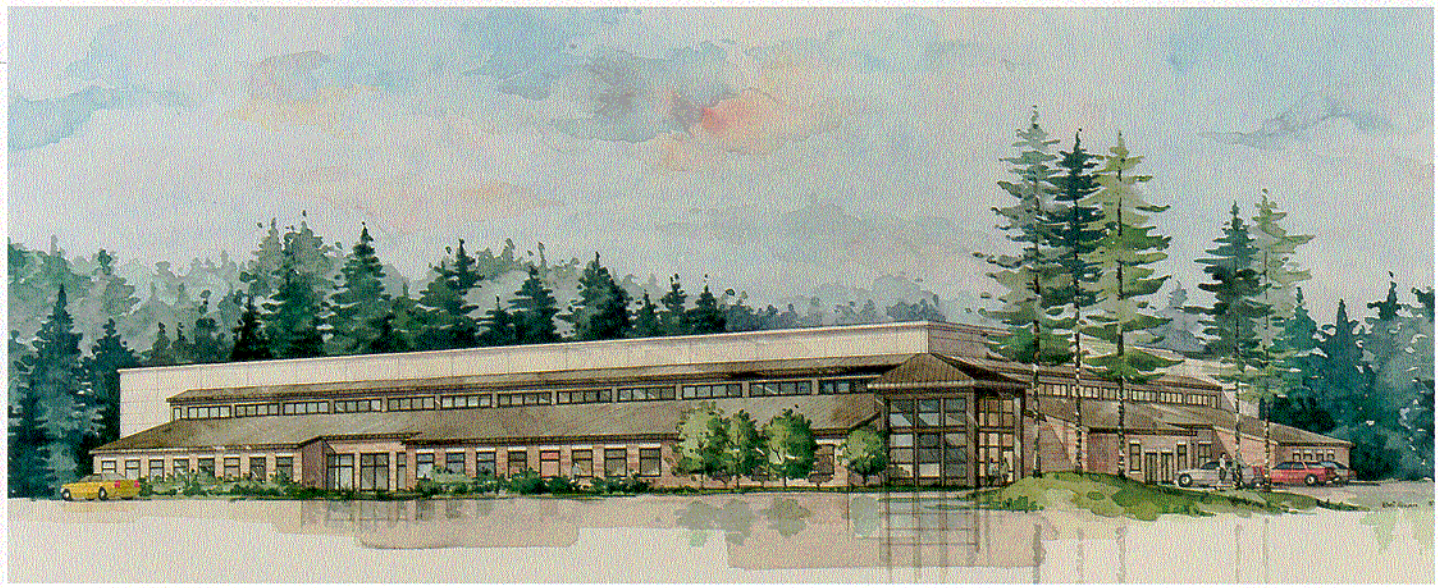
EAST ELEVATION

SOUTH ELEVATION

Training personnel to maintain the Air Force's new C-17 Globemaster aircraft is the purpose for this facility which houses tall simulator bays, a drive-through mechanic's bay for engine maintenance, training classrooms, lounge areas for students and instructors, administration areas, and contractor areas. These functions are categorized into "high-bay" and "low-bay" areas. All the "low-bay" activities are located on the front of the building facing the street, while "high-bay" activities are placed to the back of the building to allow direct access from the outside. Placing the smaller masses to the front helps to break down the facade of the building, providing a more appropriate scale to the streetscape. Arranging the floor plan in an "L" shape further helps to reduce the apparent size of this very large facility. Material selections enhance the overall massing intent while complimenting nearby facilities.

Jurors' Comments

"Nicely integrated into regional context. Good use of fenestration to create openness. Good placement of low-bay versus high-bay elements."



WEST MISSILE RANGE OPERATIONAL CONTROL CENTER
VANDENBERG AIR FORCE BASE, CALIFORNIA

Design Organization: The Benham Group, Oklahoma City, Oklahoma

Command: Air Force Space Command

Design Agent: Sacramento District US Army Corps of Engineers

Base Engineer: 30th Civil Engineer Squadron

Customer: 30th Range Squadron

Flexibility to accommodate evolving technologies and changing missions is the hallmark of this facility, which will become the nerve center for command and control of all missile launches from Vandenberg. Department of Defense and private sector missions are comingled in the building requiring varying levels of security. The windowless masonry walls on the first level meet security guidelines while complying with the base's architectural compatibility standards, and non-classified areas are situated away from the front of the building. A unique motorized shade system is used to visually isolate mission control rooms from view when needed. This high-tech building fully satisfies its program requirements, providing a comfortable, efficient working environment while meeting Air Force Space Command's Facility Excellence Standards.

Jurors' Comments

"Clean, bold exterior with surprisingly playful interiors that break up the large spaces. Good use of materials. Nicely articulates the architectural theme and scale of the facility."

"One stop" service in a central location for all command personnel functions at Ellsworth Air Force Base is now provided in this consolidated facility which houses eighteen separate departments and approximately 325 people. When completed, the 113,000 square foot complex will replace 160,000 square feet of office space spread among ten outdated and inefficient buildings scattered across the installation. The consolidation will significantly improve customer convenience, operational efficiency, and interdepartmental communication.

The designers were challenged with four major design goals: limit the width of floor plates to maximize natural light, closely relate the three construction phases, respect the site and context, and to create a "destination place". All of these goals were effectively addressed in the resulting design.

Jurors' Comments

"Excellent site use and circulation. Good use of finishes and detail. Reflects "Prairie Style" appropriate to location."

Consolidated Base Support Complex
Ellsworth Air Force Base, South Dakota

Design Organization: Setter, Leach & Lindstrom, Inc. Architects & Engineers, Minneapolis, Minnesota

Command: Air Combat Command

Design Agent: Omaha District US Army Corps of Engineers

Base Engineer: 28th Civil Engineer Squadron

Customer: 28th Support Group

MERIT AWARDS

Conveying a sense of authority and dignity was the central goal of this exemplary renovation project. The existing courtroom suffered from the presence of interior columns, poor sight lines, an awkward configuration of spaces, antiquated finishes, few ancillary spaces, and insufficient equipment to support modern legal proceedings.

The new courtroom is designed to allow each court participant to see and hear all other participants with minimal body movement or electronic amplification. Major structural modifications were necessary to create an open courtroom with no interior columns and a high ceiling. Circulation, functional space efficiency, safety and security were primary considerations. An adjacent open stairway was replaced with a code compliant enclosed stairway. A private hallway allows access by participants separate from spectators and reporters, and a metal detector was installed.

Courtroom Renovation,
Wright-Patterson Air Force Base, Ohio

Design Organization: Edge & Tinney Architects, Inc., Dayton, Ohio

Command: Air Force Materiel Command

Base Engineer: 88th Civil Engineer Group

Customer: 88th Air Base Wing/JA

Jurors' Comments

"Creating a modern courtroom in an existing building is difficult, but the designers pulled it off. Great site lines, good use of technology, fine cabinetry, good furniture selection, and excellent space planning work together to produce this winning design."

The goal of this project was to provide a landscaped woodland view as an integral part of the dining experience at any time of day during any season. Also, the design was to provide a natural setting for the lodge-like dining hall to complete its rustic ambiance. Selected for its prime forested location and proximity to living quarters, the site featured native Black Spruce and Birch trees which were removed only to the extent necessary to construct the dining facility. Paved footpaths limit public approach through the woods across a wide footbridge spanning a creek near the entrance patio. Disabled patrons have full access and are afforded the same visual and special experiences as the able-bodied. Meadow areas of native wildflowers greet visitors along the entrance path in spring and summer months while generous but discreet lighting lends warmth at night and during the dark winter months. This understated landscape design is a shining example of appropriately using indigenous materials and effectively linking the indoor and outdoor environments.

Jurors' Comments

"Excellent site planning and use of existing site features, employing naturescape techniques while maintaining low impact to the surrounding area."

Iditarod Dining Facility Landscaping
Elmendorf Air Force Base, Alaska

Design Organization: DOWL Engineers, Anchorage, Alaska

Command: Pacific Air Forces

Design Agent: Alaska District US Army Corps of Engineers

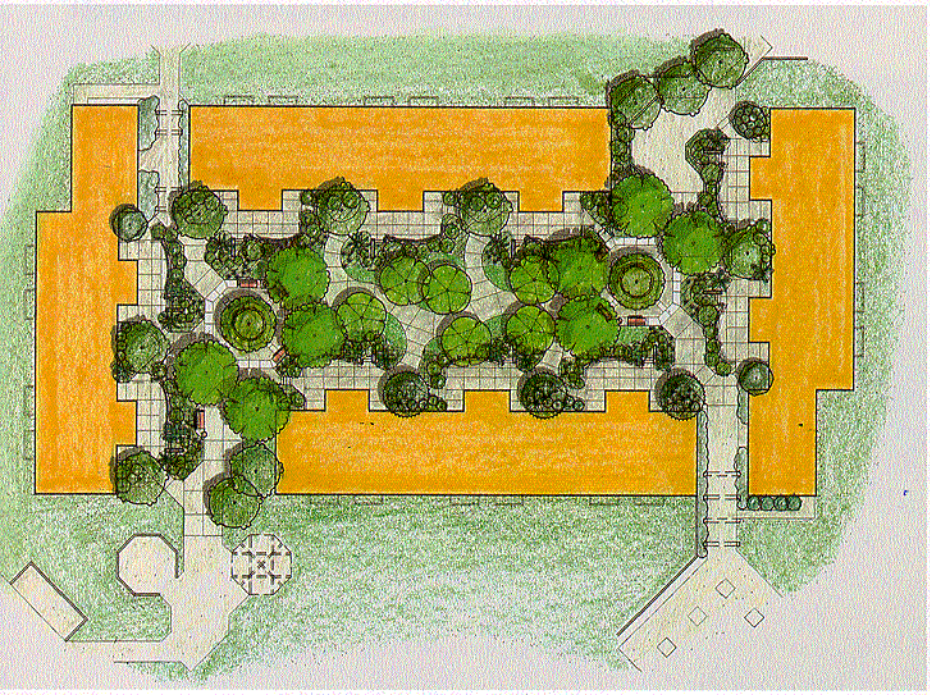
Base Engineer: 3rd Civil Engineer Squadron

Customer: 3rd Services Squadron

Although this project involved more than just landscape design, it demonstrates the important role exterior space planning plays in creating quality living environments. Beginning with an extensive survey of the resident's life styles and habits, eight existing dormitory modules were converted into apartments shared by four residents with private rooms and shared baths, kitchens and laundry areas. The intensely developed courtyard features low maintenance, native plants and exposed aggregate walkways linking pedestrian traffic with parking areas. Picnic kiosks, barbeques, and covered bicycle storage areas promote outdoor activities.

Jurors' Comments

"Good structural rhythm; inviting community area with complimenting architectural finishes. Outstanding example of an adaptive reuse from a bleak concrete courtyard to an interesting patio-gathering place. Increases quality of life for the residents, extremely good job of linking dormitory elements and pedestrian circulation and seating, inviting human scale. Combines pedestrian circulation with an interesting variety and hierarchy of spaces, along with good attention to details to site amenities and night lighting."



Dormitory Complex Renovation
Vandenberg Air Force Base, California

Design Organization: The Environmental Collaborative, San Luis Obispo, California

Command: Air Force Space Command

Base Engineer: 30th Civil Engineer Squadron

Customer: 30th Space Wing

Sited on a pivotal oceanside corner of the Hawaii Air National Guard compound, this facility consolidates dining, medical training, and administrative space into a common facility. It fully satisfies one of the primary design goals to avoid an institutional appearance. This was done by locating the functions into three separate structures linked by trellised courtyards, making the transition between the building's interior and exterior environments almost imperceptible. The facility has become a focal point of the compound, and its open plan design takes advantage of ocean views and the year-round tropical climate.

Jurors' Comments

"Playful use of shadows created by trellis - strong contrast of light and shadows. Harmonious and rhythmic structure. Materials complement Hawaiian ambiance. The trellis is well integrated with the rest of the building, capturing tropical trade winds. Deep eaves provide effective shading."

Consolidated Support Facility, Hickam Air Force Base, Hawaii

Design Organization: CDS International, Honolulu, Hawaii

Host Command: Pacific Air Forces

Using Command: Air National Guard

Design Agent: US Property and Fiscal Office for Hawaii

Base Engineer: 15th Civil Engineer Squadron

Customer: 154th Wing

MERIT AWARDS

Acquisition Management Complex Phase III
Wright-Patterson Air Force Base, Ohio

Design Organization: Hayes, Seay, Mattern & Mattern, Incorporated, Roanoke, Virginia

Command: Air Force Materiel Command

Design Agent: Louisville District US Army Corps of Engineers

Base Engineer: 88th Civil Engineer Group

Customers: B-1 and B-2 Systems Offices

As the third phase of a 1.7 million square foot, ten building complex, this facility provides a high-quality workplace that inspires and invigorates its occupants. Wright-Patterson Air Force Base's ASC Tomorrow Development Plan establishes stringent guidelines for all phases of the complex, setting standards for building heights, materials and colors so that the final complex is fully integrated. Creating a secure facility that still allows its occupants to have a direct visual and physical connection with the out-of-doors resulted in wrapping the building around a large central courtyard.

The building's exterior achieves simple, understated elegance through the careful selection and application of materials and thorough attention to detail. Its high-tech, corporate image and its sensitivity to the needs of the occupants combine to produce a facility meeting high functional, aesthetic, and technological standards. Not only does the complex fit perfectly into the master plan for the overall ASC development, the design expresses a sensitive respect for the historic structures nearby as well as the proud heritage of the installation. The raised barrel vault roof echoes the profiles of historic flightline hangars, and a special Air Force symbol, the "Arnold Star" is replicated in various decorative applications throughout the facility.

Jurors' Comments

"Bold design with excellent use of materials. Interior and exterior are equally strong using shapes that reflect the building's surroundings. Excellent delineation and identification of entry. Excellent integration of the courtyard and spatial theme. Second floor lobby space is exciting."

Jurors' Comments

"An exciting children's facility. All aspects of play and learning are integrated. Excellent use of color - consistent in design. An excellent interpretation of International Style."

Designing this facility required meeting four basic goals: produce a facility in compliance with the Academy's stringent guidance for interpreting the prevalent International Style, meet Air Force requirements for Child Development Centers, respond to the dramatic site and climate, and design to allow children to interact with the natural and man-made environments. All of these goals were successfully met through gathering input from user groups, carefully analyzing the site, and thoroughly studying the nuances of the International style in concert with Academy architects and planners. Of particular note is the bright red undulating "wiggle wall" which begins outside the entrance and continues through the interior to the courtyard. It then picks up again in the playground where it becomes a barrier between the preschool and toddler areas. Expansive window areas allow children to experience the outdoor environment from within the building.

Child Development Center
United States Air Force Academy, Colorado

Design Organization: Anderson, Mason, Dale, Denver, Colorado

Command: United States Air Force Academy

Design Agent: Omaha District US Army Corps of Engineers

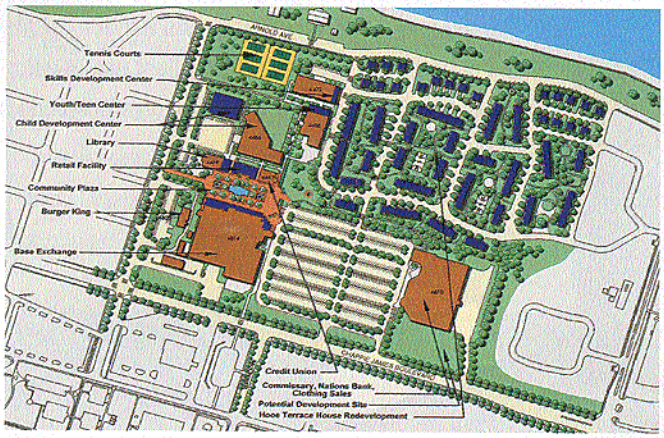
Base Engineer: 510th Civil Engineer Squadron

Customer: 10th Services Squadron

Planning Studies and Design Guides

Jurors' Comments

"A quality state-of-the-art planning document with an historical and pedestrian focus. Extremely comprehensive Commanders' Summary. Good transition from the overall plan to usable recommendations in area development plans. Quality graphic product, simple, clear, good level of detail - uncluttered, easily read and understood."



General Plan
Bolling Air Force Base, District of Columbia

Design Organization: Higginbotham/Briggs and Associates, Colorado Springs, Colorado

Command: 11th Wing

Design Agent: Air Force Center for Environmental Excellence

Base Engineer: 11th Civil Engineer Squadron

Focusing on preserving and building on the historical and architectural character of the "Chief's Own" premier installation in our nations capital is the hallmark of this General Plan. It fully meets its goals of continuing Bolling's legacy through a diligent program to upgrade existing facilities and infrastructure, enhance mission capability and quality-of-life, respect historical context, protect the environment, and encourage pedestrian circulation. The plan focuses on urban design concepts in keeping with the Washington DC Monumental Core concepts and features detailed area development plans to aid planners, programmers and engineers as they implement the plan.

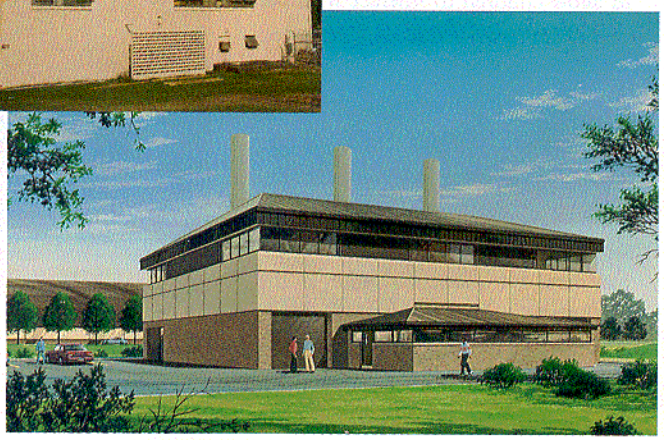
Concept Design

Jurors' Comments

"Great architectural improvement and use of materials. Good scale and balance."

This dramatic improvement to an existing heat plant illustrates that good design principles can be applied to buildings performing the most mundane functions. As an Energy Conservation Investment Project, functions of the base's two main heating plants are consolidated into one modern, energy efficient, environmentally friendly, attractive facility. When fully operational, the new plant is projected to save 1.2 million dollars per year in operating costs. The executive route between Andrews Air Force Base and the White House runs directly past the existing heat plant, presenting a poor impression to the President and visiting dignitaries.

Before



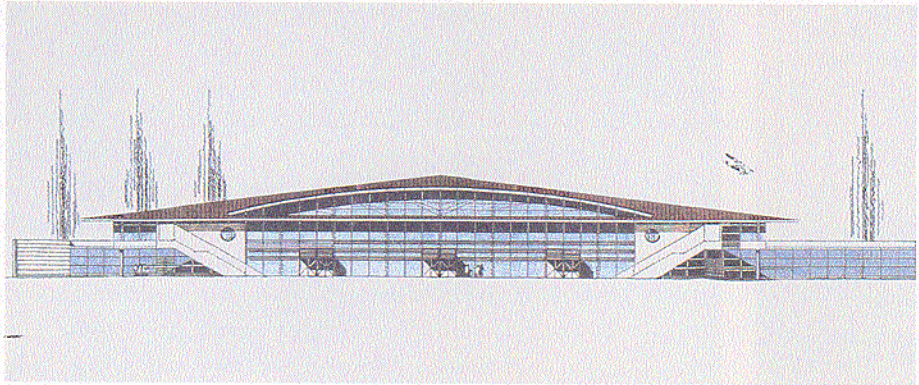
Central Heating Plant Renovation
Andrews Air Force Base, Maryland

Design Organization: RMF Engineering, Inc., Baltimore, Maryland

Command: Air Mobility Command

Design Agent: Engineering Field Activity Chesapeake

Base Engineer: 89th Support Group/CE



In its role as the primary cargo and personnel port for United States Air Forces Europe, Ramstein Air Base's current passenger terminal is unable to meet demand. This new terminal design will become a landmark as the European airlift hub while meeting the expansion requirements for the worldwide airlift community. Simple in basic form, the terminal's striking triangular roof design reflects the building's purpose as it points upward as if in flight.

PASSENGER TERMINAL
RAMSTEIN AIR BASE, GERMANY

Design Organization: Gehrmann Consult, Wiesbaden, Germany

Host Command: United States Air Forces Europe

Using Command: Air Mobility Command

Design Agent: Staatsbauamt Kaiserslautern

Base Engineer: 86th Civil Engineer Squadron

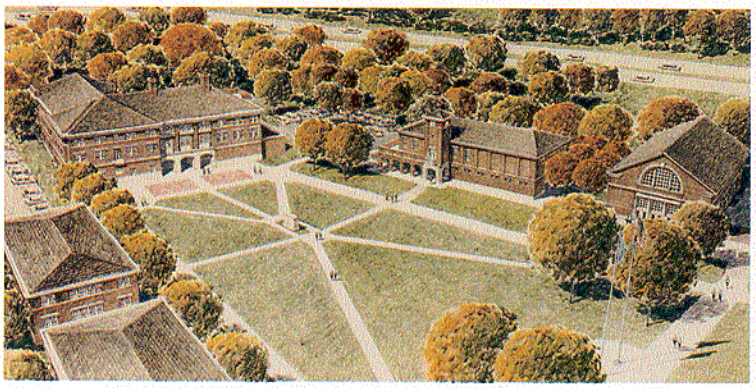
Jurors' Comments

"Exciting design with a strong plan that lends itself to expansion. Makes a strong design statement. Exceptional design concept - dynamic, yet functional."

Jurors' Comments

"Blends very well with the existing buildings. Difficult to design within the local context, but the designers did a masterful job. Excellent preservation of historic character. Nice detailing."

Constructing federal facilities within our nation's capital places additional responsibilities on the design team. Each design must go through a formal review process before the Commission on Fine Arts as well as the National Capital Planning Commission. This new complex for one of the Air Force's most elite units fully satisfies the stringent requirements of these two regional review agencies. The complex is situated immediately behind Bolling Air Force Base's historic 11th Wing Headquarters Building, one of the most distinctive and prominent structures on the installation. The design of the new Honor Guard facilities deserves special recognition for its sensitivity to the surrounding area and the effective integration of new and existing structures into a unified visual zone compliant with the base's General Plan.



HONOR GUARD DORMITORY & INDOOR TRAINING COMPLEX
BOLLING AIR FORCE BASE, DISTRICT OF COLUMBIA

Design Organization: Einhorn Yaffee Prescott Architecture & Engineering, Albany, New York

Command: 11th Wing

Design Agent: Engineering Field Activity Chesapeake

Base Engineer: 11th Civil Engineer Squadron

Customer: United States Air Force Honor Guard

CITATION AWARDS

Having its origins as a frontier Army post known as Fort D. A. Russell, F.E. Warren Air Force Base retains a unique historic flavor. The Air Force still utilizes a dozen "calvary barracks" constructed in 1903. This conversion of one of these buildings into a modern dormitory satisfying the Air Force's new "1+1" dormitory standard is a remarkable blend of the old and new. Modern convenience and efficiency has been added while retaining historic features. Various alterations over the years, the last in 1963, had left a dormitory accommodating 54 airmen with two gang showers. The new plan created living space for 40 airmen, each having a private bedroom with two people sharing a bath and kitchen.

HISTORIC DORMITORY INTERIOR RENOVATION
F.E. WARREN AIR FORCE BASE, WYOMING

Design Organization: Omaha District US Army Corps of Engineers, Omaha, Nebraska

Command: Air Force Space Command

Base Engineer: 90th Civil Engineer Squadron

Customer: 90th Services Squadron

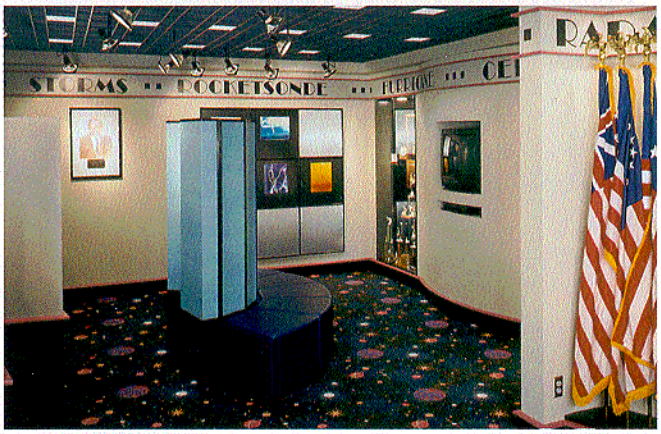
Jurors' Comments

"The modernization of these historic dormitories is a remarkable feat! The space planning made great use of the existing spaces, treating the Air Force residents as true assets. The incorporation of the latest dormitory criteria into an historic building is excellent."

Jurors' Comments

"This project involves more than just interior design - it also includes graphic and exhibit design. The designer's use of graphics, materials, display techniques and lighting create a space that tells the story of the Air Force Global Weather Center. An overall outstanding design that met program objectives. Before and after photos are remarkable!"

Hundreds of dignitaries from around the world visit the Air Force Global Weather Center annually. The center's waiting area/lobby was designated as "Heritage Hall" in 1988 as a place to welcome visitors and pay tribute to individuals who have distinguished themselves in service to the center and to the Air Force. Now updated with bold, exciting finishes, special display lighting, and unique materials, the center reflects the high-tech nature of weather forecasting and reporting without detracting from the personal accomplishments of those being honored. An atmosphere promoting pride and interest in the Air Force Global Weather Center has been created.



AIR FORCE GLOBAL WEATHER CENTER HERITAGE HALL
OFFUTT AIR FORCE BASE, NEBRASKA

Design Organization: 55th Civil Engineer Squadron, Offutt Air Force Base, Nebraska

Command: Air Combat Command

Customer: Headquarters Air Force Global Weather Central

Basewide Landscape Designs
Hickam Air Force Base, Hawaii

Design Organization: 15th Civil Engineer Squadron, Hickam Air Force Base, Hawaii

Command: Pacific Air Forces

Customer: 15th Air Base Wing

While most landscape improvements to Air Force installations are accomplished as smaller undertakings, this comprehensive landscape project is a prime example of a base's commitment to enhancing the outdoor environment on a grand scale. Two major areas of the base were affected: Aloha Aina Park near the entrance to Pearl Harbor, and Hickam Harbor Peninsula Park and Pavilion, a popular picnic and harbor viewing area. The first park design converts a service road into a mile long park complete with picnic areas, playgrounds, a jogging path, and the Missing Man Memorial; a significant upgrade to the coastline. The second park replaces an outdated pavilion and adds native plant materials that can withstand the harsh marine environment. Both areas are extremely popular and enjoy widespread use by both Air Force and Navy families.

Jurors' Comments

"Vastly improved quality of life as a result of significant landscape architectural and site development improvements. An exemplary in-house effort showing commitment to improving the exterior environments and grounds."

Jurors' Comments

"Excellent fit with existing architecture. Exemplary attention to detail while emulating existing historical context testifies to the installation's commitment to quality."

As one of the Air Force's oldest installations, Langley Air Force Base enjoys a proud heritage of major contributions to air power. This pavilion not only celebrates the accomplishments of Brigadier General Billy Mitchell, it also reflects the unique architectural style inherent in many of the base's older structures, many of which are included in a proposed National Register Historic District. Commemorating the 75th anniversary of General Mitchell's bombing trials at the base, several computer-driven, self-contained interactive displays provide information and education to the pavilion's visitors. Sited adjacent to the static aircraft displays in Memorial Park, the pavilion will provide an important transition between the park and a proposed visitors center.

Air Power Pavilion
Langley Air Force Base, Virginia

Design Organization: Waller, Todd & Sadler Architects, Inc., Virginia Beach, Virginia

Command: Air Combat Command

Base Engineer: 1st Civil Engineer Squadron

Customer: 1st Fighter Wing

CITATION AWARDS

Designed and constructed in record time, this extremely efficient design fully satisfies its goal of allowing rapid and coordinated airborne mobilization of joint Army and Air Force personnel and equipment. The centralized complex replaces numerous "piecemeal" facilities scattered among several installations across Alaska, vastly improving efficiency. Processing space is provided for three full plane loads of paratroopers, and an equipment preparation area features four, 220-foot drive-thru lanes to allow all-weather preparation of cargo. A variety of equipment can be processed, including CH-47 helicopters and D7 bulldozers.

JOINT MOBILITY COMPLEX
ELMENDORF AIR FORCE BASE, ALASKA

Design Organization: Alaska District US Army Corps of Engineers, Anchorage, Alaska

Command: Pacific Air Forces

Base Engineer: 3rd Civil Engineer Squadron

Customer: 3rd Logistics Support Squadron

Jurors' Comments

"A new and innovative approach - the space is designed to meet the specific functional needs of the mission. Sculptural, simple and bold against the mountainous background. Innovative design with smooth structural and architectural rhythm. Very difficult design objective: Create a new building type that satisfies a variety of functions based on different scenarios. Unique design in light of accelerated design and construction schedule."

Jurors' Comments

"Straightforward detailing with no frills. Excels due to its simplicity and environmental sensitivity. Exceptional management of environmental concerns. Innovative lead containment system."

Firing ranges have traditionally been a major contributor to lead contamination on Air Force installations. Typically, spent bullets lodge themselves in the target/impact berms that prevent the lead slugs from travelling outside the range. In this design, existing berms were mined to remove their lead content and replaced with a projectile collection system. Not only does the system stop bullets, it collects them in a canister for permanent storage until they are transported for recycling. The low impact angles and sealed, enclosed chamber design greatly reduce emissions of lead particulate, and a dust collector eliminates airborne pollutants.

SMALL ARMS FIRING RANGE RENOVATION
MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT AIR RESERVE STATION, MINNESOTA

Design Organization: Kodet Architectural Group, Ltd., Minneapolis, Minnesota

Command: Air Force Reserve Command

Base Engineer: 934th Civil Engineer Squadron

Customer: 934th Support Group

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