

## United States Airforce 2003 Design Awards

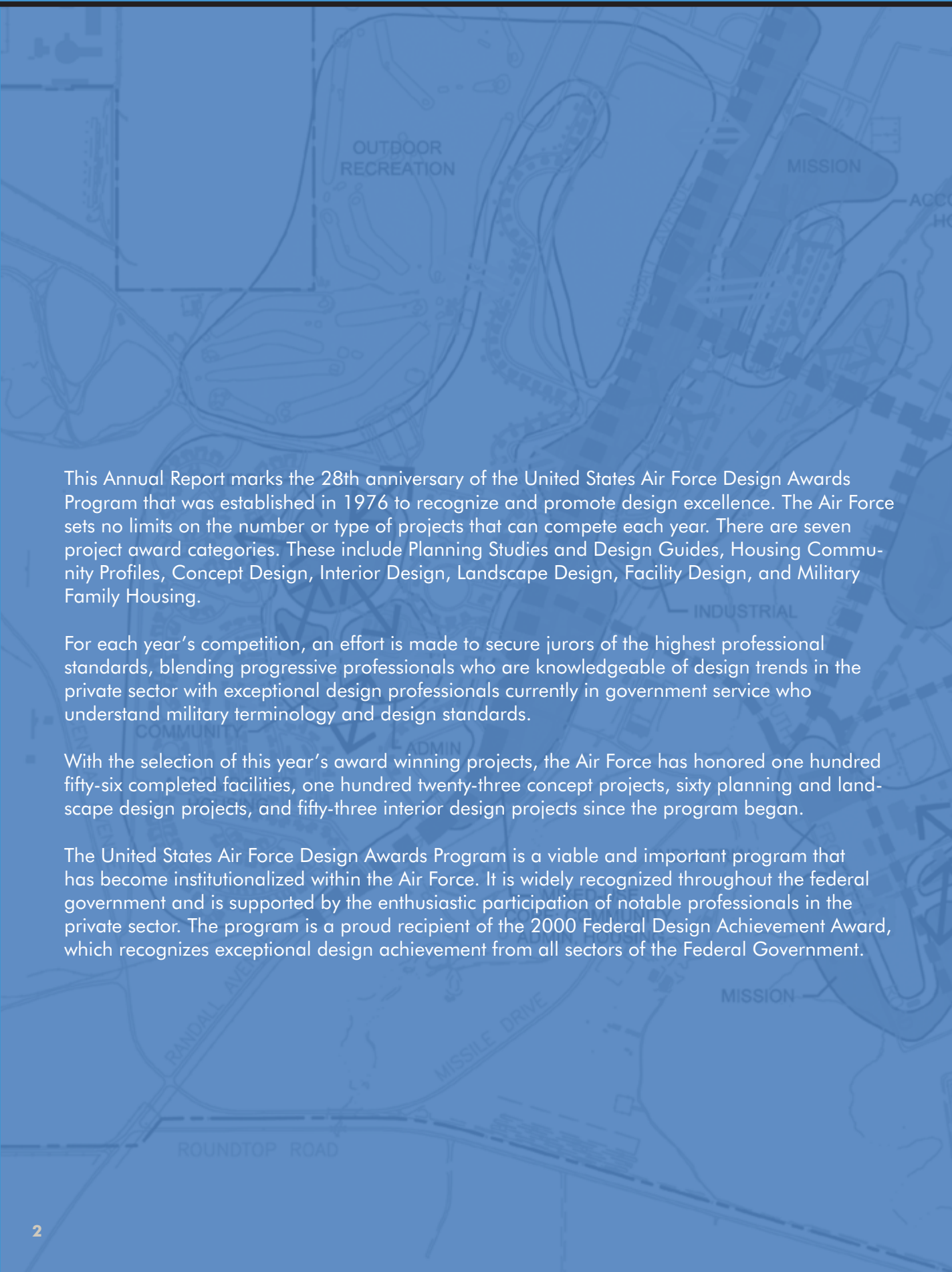


For almost three decades, the USAF Design Awards Program has been the primary tool the Air Force uses to recognize the exceptional work of many design professionals. While this brochure lists the design teams responsible for the award-winning projects, this document also communicates the Air Force's principles of design excellence and fosters our reputation for quality facilities and installations.

This year's winners exemplify the variety of facilities the Air Force has in its inventory. From facilities directly affecting our airmen's quality of life, to projects celebrating our proud Air Force heritage, to workplaces and operational facilities, it is clear that our installations are comprised of much more than just random assortments of unrelated buildings and infrastructure. These individual projects are part of an Air Force community that projects our professional image, respects the environment, and serve the functions for which they were designed. Not only must our projects meet schedule, budget and environmental requirements, they must also provide a healthy, durable and flexible working and living environment. We continually strive to be good stewards of our resources, and these projects reflect the Air Force's strong commitment to sustainability.

I congratulate this year's winners, and challenge the Air Force team to benefit from these award-winning projects by capturing the cooperative spirit that led to their selection.

L. Dean Fox  
Major General, USAF  
The Civil Engineer



This Annual Report marks the 28th anniversary of the United States Air Force Design Awards Program that was established in 1976 to recognize and promote design excellence. The Air Force sets no limits on the number or type of projects that can compete each year. There are seven project award categories. These include Planning Studies and Design Guides, Housing Community Profiles, 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.

With the selection of this year’s award winning projects, the Air Force has honored one hundred fifty-six completed facilities, one hundred twenty-three concept projects, sixty planning and landscape design projects, and fifty-three 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. 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 Award

### Planning Studies and Design Guides

Facility Use Survey and Space Utilization Plan  
F.E. Warren Air Force Base, Wyoming

Housing Development Study, Phase III  
RAF Lakenheath, United Kingdom

### Interior Design

Ambulatory Health Care Center  
McGuire Air Force Base, New Jersey

### Facility Design

Medical Clinic  
McChord Air Force Base, Washington

## Merit Award

### Planning Studies and Design Guides

Air Force Space Command Facilities  
Excellence Guide 2003

### Concept Design

Base Supply Complex  
Nevada Air National Guard, Reno

Replacement Military Family Housing  
Lajes Field, Azores, Portugal

### Facility Design

Elementary and Middle Schools  
Andersen Air Force Base, Guam

Chapel Renovation  
Charleston Air Force Base, South Carolina

Services Facility  
Charleston Air Force Base, South Carolina

### Interior Design

Collocated Club  
Hill Air Force Base, Utah

## Citation Award

### Planning Studies and Design Guides

General Plan  
Nellis Air Force Base, Nevada

### Concept Design

Golf Course Clubhouse  
Patrick Air Force Base, Florida

Flight Simulator Facility  
McGuire Air Force Base, New Jersey

Jet Fuel Storage Complex  
Nevada Air National Guard, Reno

### Landscape Design

Historic District Airpark  
Peterson Air Force Base, Colorado

### Facility Design

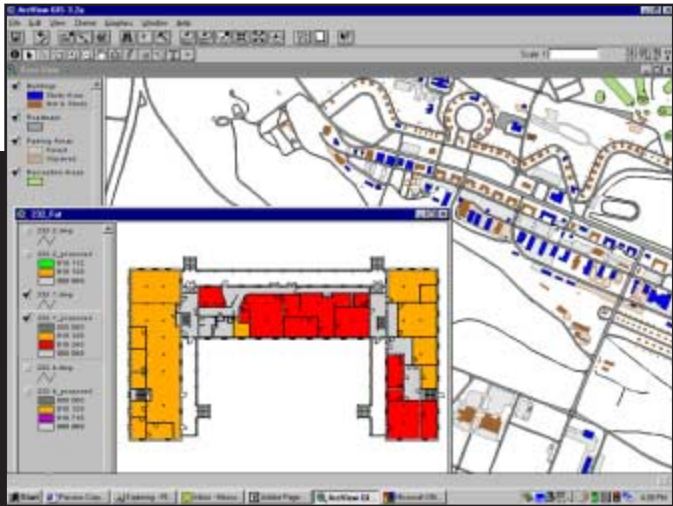
Cannon Federal Credit Union  
Cannon Air Force Base, New Mexico



Facility Use Survey and Space Utilization Plan  
F.E. Warren Air Force Base, Wyoming

Design Organization: Parsons  
Using Command: Air Force Space Command  
Design Agent: Air Force Center for Environmental Excellence  
Base Engineer Organization: 90th Civil Engineer Squadron

F.E. Warren Air Force Base possesses a rich heritage of original 100-year-old structures built when the base was an Army post. This space utilization plan addresses not only the usual planning issues, but also preserves and reuses these unique historic facilities. The historic aspect of the buildings included in this plan presented extraordinary challenges to the planning team as the need for historic preservation was balanced with organizational space requirements. At the same time, the plan addresses square footage authorizations, customer access, and the efficient consolidation of space. The plan also reduces visual clutter, improves aesthetics, demolishes substandard facilities, and incorporates the Air Force Space Command facility excellence standards. The resulting space utilization plan demonstrates how a participatory planning process combined with appropriate technology can promote mission visibility, executable programs, and sustainable base development.



- Jurors' Comments:**
- Concise and complete – covers everything the planner and programmer need to see
  - A proactive plan designed to eliminate short-sighted actions
  - Addresses a real but often overlooked need



**Housing Development Study, Phase III**  
**RAF Lakenheath, United Kingdom**

Design Organization: RMJM London Ltd.  
Using Command: United States Air Forces Europe  
Design Agent: Defence Estates, US Forces  
Base Engineer Organization: 48th Civil Engineer Squadron

This study provides a blueprint for a housing development plan that gives the residents a uniquely British experience while maintaining high Air Force housing standards. The plan transforms sprawling low-density housing comprised of four-plex units into a pleasing English village concept. It also corrects inefficient land use and other existing deficiencies with a new development concept that varies the housing density and defines strong neighborhoods. High-density townhouses are coupled with a lower-density section that has larger lots for families. Neighborhoods are further defined by courtyards and shared paved areas configured to slow vehicular traffic and pass ownership of the road to pedestrians. The more efficient land use allows for a large public green space as a community focal point, augmented by several smaller open spaces and greenbelt buffers. The proposed vehicular circulation system promotes logical flow through the site, delineates private and public spaces, and enhances pedestrian and school safety.



**Jurors' Comments:**

- *Developed with sensitivity to the surroundings*
- *Incorporates local style with Air Force standards*
- *A thoroughly refreshing approach to subdivision design – provides variety and interest*





# Honor Award – Interior Design

## Ambulatory Health Care Center McGuire Air Force Base, New Jersey

Design Organization: Ewing Cole Cherry Brott  
Using Command: Air Mobility Command  
Design Agent: New York District US Army Corps of Engineers  
Design Manager: Air Force Center for Environmental Excellence  
Project Manager: Air Force Surgeon General - Facilities  
Base Engineer Organization: 305th Civil Engineer Squadron

The interior design of this military medical facility can serve as an outstanding model for similar Air Force hospitals and clinics. This new modern medical center provides efficient, cost-effective medical care in an aesthetically pleasing environment. The quality of life for the center's patrons is enhanced through the aesthetic treatment and organizational efficiency of the material selections and interior plan. The designers were challenged to provide an environment comparable the to the best civilian facilities while adhering to Air Force and Army Corp of Engineer design standards and guidelines. The facility's interiors incorporate flexibility, sound sustainability principles, outstanding use of daylighting and impressive detailing and material selection. Sustainable concepts are applied throughout the facility. Configuring clinic suites with universal exam rooms and collocated specialty diagnostic and treatment functions greatly enhances the center's efficiency and flexibility.



- Jurors' Comments:**
- Incorporates sound sustainability principles
  - Impressed with use of daylight in recovery area!
  - Excellent representation of design excellence. Detailing and material choice embrace concepts of Air Force design



**Medical Clinic**  
**McChord Air Force Base, Washington**

Design Organization: NBBJ  
Using Command: Air Mobility Command  
Design Agent: Seattle District US Army Corps of Engineers  
Design Manager: Air Force Center for Environmental Excellence  
Project Manager: Air Force Surgeon General – Facilities  
Base Engineer Organization: 62nd Civil Engineer Squadron

This modern clinic replaces and consolidates several outdated facilities and provides a number of features worthy of application to other military medical facilities. The clinic’s unique design promotes efficient and cost-effective medical care, and enhances quality of life for military personnel in an environment equal to off-base civilian facilities while adhering to Air Force design standards and guidelines. Located on a partially wooded site, the building relates very well to its surroundings by providing excellent visibility to the outdoors, including an impressive view of Mount Rainier. A glass curtain wall was incorporated into the front of the building to take full advantage of the mountain view and to create a transparent, less massive structure. The exterior design of the clinic gives a sense of its regional context while being respectful of its immediate on-base surroundings. The sweeping Air Force blue curved panels at the central staircase suggest images of flight and relate to the Air Force identity without being a literal interpretation.



**Jurors’ Comments:**

- *Exciting interior spaces*
- *Excellent building in all respects*
- *Great material selection and execution of details*

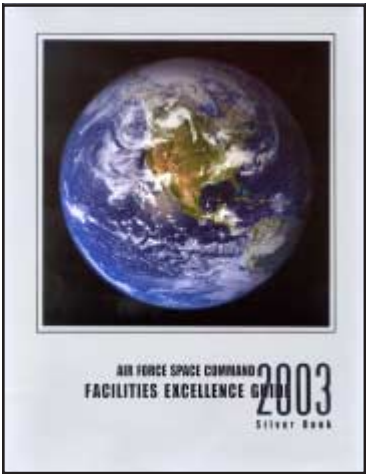


Merit Award – Planning Studies and Design Guides

Air Force Space Command Facilities Excellence Guide 2003

Design Organization: Fennell Group  
Using Command: Air Force Space Command

This in-depth guide defines and illustrates Air Force Space Command’s policies and design guidelines for installation development, planning, and design. The document helps define the concept of "facilities excellence" and is a key component of implementing and promoting Installation Excellence across the command. As an expanded version of the award-winning guide first published in 2000, the publication is available in hardcopy booklet form, on CD ROM, and on the Air Force Space Command web site. The guide presents information in an innovative and enjoyable format that contributes to a visually pleasing document that effectively conveys its meaning and intent. It expands on the premise that facility excellence is a key component in improving the quality of life, motivation and retention of Air Force personnel.



Jurors’ Comments:

- A visually pleasing document that effectively conveys its meaning and intent to a broad audience
- Very innovative and enjoyable format – thankfully doesn’t read like an Air Force Regulation

Merit Award – Concept Design

Base Supply Complex  
Nevada Air National Guard, Reno

Design Organization: CH2M Hill with DMJMH+N  
Using Command: Air National Guard  
Design Agent: US Property and Fiscal Office for Nevada  
Base Engineer Organization: 152nd Civil Engineer Squadron

A mixed-use facility comprised of base supply functions, administrative functions, and the office of the state Air National Guard headquarters, this design combines clean, straightforward line definition with good material selection to produce a very attractive building. The building is elegant yet cost effective, and defines a unified "town square" campus with a strict material and color palette to control future development. The design team developed the material palette using locally available materials present on existing buildings, and suitable design elements were incorporated considering the site, climate, and functional requirements. Insulated glazing and sunshades over the plaza are functional elements that provide protection from the harsh climate in Reno, where the temperature can go from freezing to 110 degrees in a single week. Energy efficiency is further enhanced by the efficient use of natural light and ventilation.



Jurors’ Comments:

- Nice definition of building line
- Very attractive building
- Good use of simple materials – design is well-integrated
- Clean, straightforward design





# Merit Award – Concept Design

## Replacement Military Family Housing Lajes Field, Azores, Portugal

Design Organization: Baker and Associates  
Using Command: Air Combat Command  
Design Agent: Air Force Center for Environmental Excellence  
Base Engineer Organization: 65th Civil Engineer Squadron

Embracing the Air Forces "good neighbor policy" this design concept establishes a precedent by respecting the local environment, limited land resources, and the Azorean Portuguese architectural and cultural vernacular in. Located on the small Portuguese island of Terceira, one of the islands forming the Azores, this replacement military family housing complex retains the character of local residences while meeting Air Force design standards and American expectations. The design is primarily Azorean, incorporating concrete and reinforced masonry unit exterior walls, with gypsum board interior partitions. This very sustainable project is built on land made available by demolishing the existing inadequate facilities and recycling seventy-five percent of the concrete and masonry into the new construction. Additionally, the use of local materials and construction techniques familiar to local contractors resulted in significant cost savings. Taking advantage of a prime coastal site, the housing units, play areas, walking trails, and seating areas are oriented to take advantage of ocean vistas.



### Jurors' Comments:

- Local style well-blended with Air Force housing standards
- Exterior details and materials carry through to the interiors
- Good consideration to local flavor
- Nice design throughout



# Merit Award – Facility Design

## Elementary and Middle Schools Andersen Air Force Base, Guam

Design Organization: AM Partners, Inc.  
Using Command: Pacific Air Forces  
Design Agent: Pacific Division Naval Facilities Engineering Command  
Base Engineer Organization: 36th Civil Engineer Squadron

As replacements for interim schools for dependents of military personnel on the island of Guam, these permanent, modern elementary and middle school facilities provide an enhanced teaching and learning environment. Opening in time for 2001/2002 school year, the facilities are well executed, functional, and attractive while complying with Air Force standards and Department of Defense Education Activity Standards. These sustainable facilities incorporate concrete exterior walls with insulated finish systems and double insulated windows and doors to reduce cooling demand and energy consumption. Classrooms are conveniently clustered in pod layouts around large multi-purpose areas. The effective creation of open space between buildings provides efficient campus circulation that doubles as informal gathering areas. These courtyards are also designed for protection against Guam's high temperatures, humidity and other weather extremes. The school's architectural style and color palette complement the surrounding base community.



### Jurors' Comments:

- Very functional but attractive
- Sustainable design
- Large scale well-executed



Merit Award – Facility Design

Chapel Renovation  
Charleston Air Force Base, South Carolina

Design Organization: Glick/Boehm & Associates  
Using Command: Air Mobility Command  
Base Engineer Organization: 437th Civil Engineer Squadron

Setting a standard of excellence for Chapel renovation projects, this innovative concept includes the complete renovation of approximately 11,000 square feet in the existing facility and adds another 2,100 square feet. New roof forms add to the exterior appeal of the building, and the new interiors are interesting and refreshing. Equal attention is given to the exterior and interior treatment, resulting in spiritually uplifting spaces, functional site circulation and attractive details. With the exception of the metal roof system, the new exterior incorporates the installation's local material palette. The metal roof was used to visually convey the building's importance. The interior of the sanctuary has been completely redone with geometric wood and fabric wall treatments that coordinate with striking stained glass windows. Large roof overhangs, insulated double glazing systems, variable air volumes and fan speeds work together with other efficient systems to enhance the facility's sustainable characteristics.



NORTH-EAST ELEVATION



EXISTING NORTH-EAST ELEVATION

Jurors' Comments:

- *Very nice renovation – new roof forms add to appeal of building*
- *Interesting and refreshing interiors*
- *Equal attention giving to exterior and interior*

Merit Award – Facility Design

Services Facility  
Charleston Air Force Base, South Carolina

Design Organization: McKellar & Associates, Inc.  
Using Command: Air Mobility Command  
Base Engineer Organization: 437th Civil Engineer Squadron

An excellent example of sustainability through building reuse, this facility was originally constructed as a 27,000 square foot dormitory, but has been completely transformed into a highly functional office building. The energy- efficiency of the building has been improved by a new high performance building envelope that provides increased natural light, operable windows, deep roof overhangs, and tinted, insulated glazing. Additionally, a variable air volume system provides better distribution of conditioned air. The exterior and interior design features are very well coordinated, and the renovation makes good use of existing floor space. The design solution uses the installation's material and color palette to provide detail and interest in the long elevations. The use of a curtain-wall glazing system at the main lobby provides natural daylight and lends stature to the building's entrance.



Jurors' Comments:

- *Good renovation – nice exterior*
- *Excellent example of sustainability by reusing existing facility for a new use*
- *Good use of existing floor space – good interior design*



Merit Award – Interior Design

Collocated Club  
Hill Air Force Base, Utah

Design Organization: HFSA  
Using Command: Air Force Materiel Command  
Design Agent: Sacramento District US Army Corps of Engineers  
Base Engineer Organization: 75th Civil Engineer Group

A flagship design for collocated Officer's and Non-commissioned Officer's Clubs, this project successfully blends the two functions into a common facility greatly improving efficiency and operational costs. While the separation of service and public areas allows both club spaces to be privately served, the co-utilization of many common spaces and services has been very beneficial. Food and beverage operational costs have been cut in half by consolidation and the co- utilization of functional spaces has also resulted in cost savings. As an expansion of the existing Non-commissioned Officer's Club to accommodate the functions of a new Officer's Club, the collocated aspect of the facility is communicated by matching the exteriors of the two clubs. New spaces include a ballroom, lounge area, formal dining room, a new service kitchen and other special function areas. The club's interior materials and color scheme are outstanding and feature clean, consistent and durable interior finishes. The innovative use of glazing enhances the interior spaces and provides a good connection to the outside environment.



Jurors' Comments:

- Great interior materials and color scheme
- Clean, consistent interior finishes are durable yet attractive
- Outstanding use of glazing in the lobby enhances the interior



Citation Award – Planning Studies and Design Guides

General Plan  
Nellis Air Force Base, Nevada

Design Organization: HB&A  
Using Command: Air Combat Command  
Design Agent: Sacramento District US Army Corps of Engineers  
Base Engineer Organization: 99th Civil Engineer Squadron

This General Plan serves as a comprehensive, user-friendly document that guides future development at Nellis Air Force Base as well as Indian Springs Air Force Auxiliary Field. It defines a vision of the future at these two locations to insure orderly and compatible growth. Guidance is provided for achieving this vision through the implementation of specific goals and objectives. The resulting product is a solid plan that emphasizes recommendations, implementation strategies, and area development planning. Goals and objectives address topics such as: enhancing the installation's viability, efficiently utilizing the existing capacity to accommodate future growth, executing stewardship responsibilities, land and airspace use, and improving the quality of life and aesthetics for base personnel. In addition to hardcopy version, an easily updated electronic version of the plan is accessible on-line through the Nellis Home Page.



Jurors' Comments:

- A solid plan that emphasizes recommendations, implementation and area development plans
- Good plan, very detailed
- Looks at everything in at least a macro view

Citation Award – Planning Studies and Design Guides

Golf Course Clubhouse's  
Patrick Air Force Base, Florida

Design Organization: HDR Architecture/Engineering  
Using Command: Air Force Space Command  
Base Engineer Organization: 45th Civil Engineer Squadron

Designed to deliver an improved level of service and a world-class experience for all its patrons, this design relates well to its surroundings. It uses appropriate forms, scale, and materials while accommodating the required functions in a limited space. The new clubhouse provides space for dining, a pro shop, special events, and associated golf activities. Many recommendations found in the US Green Building Council's Leadership in Energy and Environmental Design program were incorporated into the design concept. The design promotes improved pedestrian and vehicular circulation, provides accessibility for visitors with special needs and complies with the Base Facilities Excellence Plan. Appropriate Department of Defense antiterrorism/force protection measures are also incorporated. The use of indigenous landscape plants, maximizing the use of natural light while preserving key vistas, and retaining storm water on-site for landscape irrigation will further reduce utility costs.



Jurors' Comments:

- Relates very well to its surroundings
- Appropriate forms, scale and materials



## Citation Award – Concept Design

### C-17 Flight Simulator Facility McGuire Air Force Base, New Jersey

Design Organization: Frankfurt-Short-Bruza Associates, P.C.  
Using Command: Air Mobility Command  
Design Agent: New York District US Army Corps of Engineers  
Base Engineer Organization: 305th Civil Engineer Squadron

Sited with minimum clearances between two existing buildings, this new training facility uses landscaping to tie the three buildings into a more cohesive, campus- like appearance. Supporting the beddown of the C-17 aircraft at McGuire, the design is exemplary because of it provides needed functional areas while remaining on budget and maintaining base facility standards. The use of glass as a design element presents a creative departure from the typical solid exterior walls of most flight simulator buildings. The design is sustainable and environmentally responsible through consolidation of air-conditioned spaces, the presence of a vestibule at the main entrance, and the use of energy-efficient equipment. Anti-terrorism/Force Protection requirements are subtly incorporated in the design.



#### Jurors' Comments:

- *Nice departure from the solid exterior walls of typical flight simulators*
- *Good use of glass*

## Citation Award – Concept Design

### Jet Fuel Storage Complex Nevada Air National Guard, Reno

Design Organization: CH2M Hill with Pond & Company  
Using Command: Air National Guard  
Design Agent: US Property and Fiscal Office for Nevada  
Base Engineer Organization: 152nd Civil Engineer Squadron

This Jet Fuel Storage Complex provides a compact, functional facility that is integrated into the "town square" concept promoted by the overall base master plan. The complex's functions include receiving, storing and distributing aircraft fuel. It includes an operations building housing administrative, operational, supervisory, and support functions. A blue standing-seam metal broad arched roof form, reflective of the base's design standards, was selected as a common element for the complex's various structures. Space frame canopies provide cover over the fuel loading and unloading area. Granite-colored split masonry with garnet-colored accent blocks and charcoal gray bands are used for the Operations Building and the Filter Building. The design illustrates that quality, aesthetically pleasing design can apply to industrial projects. Specifying of efficient mechanical and electrical equipment optimizes energy savings.



#### Jurors' Comments:

- *Good functionality*
- *Shows that quality design can apply to industrial projects*

## Citation Award – Landscape Design

### Historic District Airpark Peterson Air Force Base, Colorado

Design Organization: HB&A  
Using Command: Air Force Space Command  
Base Engineer Organization: 21st Civil Engineer Squadron



#### Jurors' Comments:

- *A well-developed and thoughtful representation of Space Command's historical evolution*
- *Successfully incorporates historic buildings into the overall design*
- *Transforms a lackluster space into a distinctive landmark*

Displaying Air Force artifacts in a park-like setting, this first class Historical Airpark provides an outstanding presentation of the United States Air Force's proud heritage. The Airpark was envisioned a decade ago as a place to display and Peterson Air Force Base's unique collection of static aircraft displays, to preserve a historic site, and to improve an unattractive, undeveloped area in the center of the base. The site encompasses several pre-World War II buildings and the distinctive Art Deco Colorado Springs Municipal Airport terminal building built in 1941. The organization of the site integrates the old airport buildings into a park-like setting, following the National Park Service's philosophy of orientation and history. The terminal building serves as an orientation gateway for visitors, followed by a journey through the history of Air Defense Command. Exiting through the terminal as departing passenger of 60 years ago, the visitor is immediately oriented to the Airpark by the view of the EC-121 Constellation anchoring the opposite end of the park. Pikes Peak, the Rocky Mountains, and evergreen trees serve as a predominate backdrop for the Airpark and tie it to its Colorado locality.

## Citation Award – Facility Design

### Cannon Federal Credit Union Cannon Air Force Base, New Mexico

Design Organization: JLS Architects, Inc.  
Using Command: Air Combat Command  
Base Engineer Organization: 27th Civil Engineer Squadron

This innovative design involved converting a former service station into a credit union facility. The project is a good example of sustainable design through building reuse, and was accomplished at a considerable cost savings over that of a new structure, not to mention the reduced impact on land requirements. The solution involved enclosing the first garage bay to create the teller area, converting the remaining two bays into drive-through lanes, locating an ATM on the exterior wall of the building at the innermost drive-through lane, and remodeling the existing interior spaces into a lobby and office area. The appearance of the former service station has been vastly improved blend the design with existing base structures. Recycling an existing building is environmentally responsible as well as reducing impact on land. The double roofs minimize energy use with R-30 insulation under the new roof, five foot overhangs and insulated windows.



#### Jurors' Comments:

- *Amazing transformation of a former service station*
- *Great example of sustainable design through building reuse*
- *Remarkable adaptation for costing so little*



Jury Members

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pages 6-7	RMJM
pages 8-9	Jeffrey Totaro
pages 10-11	Eduardo Calderon/NBBJ
page 12	Fennell Group
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page 21, top	Harris Photography Services
page 21, bottom	Nathan McCreery Photography



# Acknowledgments

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UNITED STATES AIR FORCE UNITED STATES AIR FORCE UNITED STATES AIR FORCE

# 2003 DESIGN AWARDS PROGRAM

