

2005

United States
Air Force

30th Annual
Design Awards
Program

United States Air Force 2005 Design Awards

This year marks the 30th anniversary of the USAF Design Awards Program. Though award categories may have changed, the fundamental concept of the competition has remained the same, to recognize the individuals and teams that help the Air Force maintain its reputation of facility design excellence.

This brochure details the work of award winning professionals committed to the creative design and sustainable construction of state of the art facilities on our Air Force installations. Throughout this document, you will find projects reflecting understated design excellence achieved through the application of unique design principles and cost efficient materials that provide Airmen with high quality workplaces, housing, training sites, and centers of recreation.

The winners of the 2005 United States Air Force Design Awards Program exemplify the wide variety of facilities and installations available to our Air Force men and women. Each facility plays an integral role in the development of the global Air Force community that is committed to sustaining the environment and our resources.

As we continuously pursue superior facility design, I applaud the winners of the 2005 USAF Design Awards Program.



L. DEAN FOX, Maj Gen, USAF
The Civil Engineer
DCS/Installations & Logistics



2005 Design Awards Program

This Annual Report marks the 30th 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, Design Guides, and Housing Community Profiles, Sustainable Design, 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.

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

Concept Design
Indoor Community Pool
Osan Air Base, Korea

Interior Design
Bowling Center
RAF Mildenhall, United Kingdom

Landscape Design
Davis Park
MacDill Air Force Base, Florida

Facility Design
Santa Rosa Tower
Eglin Air Force Base, Florida

Family Housing
Replacement Family Housing
Mountain Home Air Force Base, Idaho

Citation Award

Concept Design
Rescue Wing Headquarters
Patrick Air Force Base, Florida

Interior Design
Arctic Oasis Community Center
Elmendorf Air Force Base, Alaska

Facility Design
Entry Gate Realignment
Wright-Patterson Air Force Base, Ohio

Control Tower
Wright-Patterson Air Force Base, Ohio

Merit Award

Planning Studies
Base Comprehensive Plan
Misawa Air Base, Japan

Entry Facilities Master Plan
Air Force Space Command Installations

Sustainable Design
Consolidated Support Facility
Edwards Air Force Base, California

Concept Design
Family Housing Tower
Osan Air Base, Korea

Aircraft Maintenance Complex
Tennessee Air National Guard

Interior Design
Dining Hall Renovation
United States Air Force Academy, Colorado

Facility Design
Passenger Terminal Canopy & Force Protection
Andrews Air Force Base, Maryland

Consolidated Support Facility
Barnes Air National Guard Base, Massachusetts

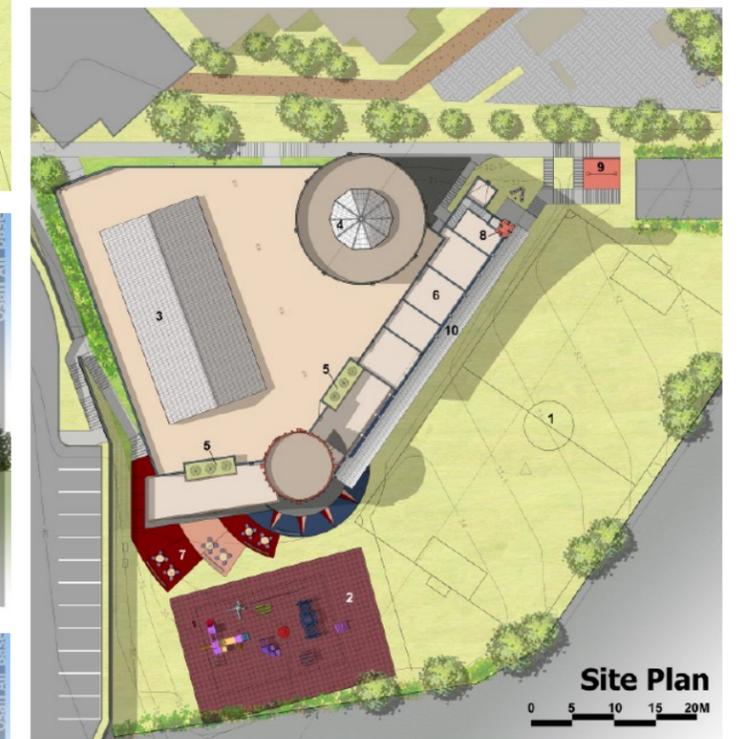
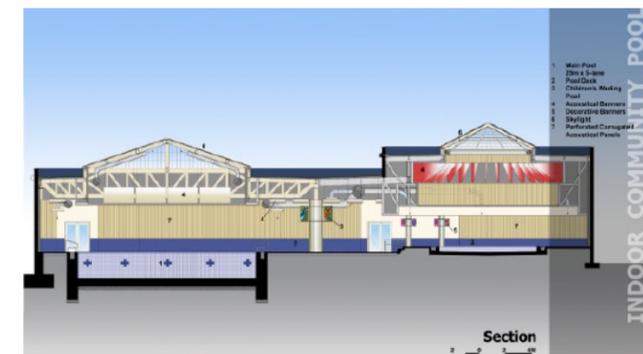
Family Housing
Replacement Family Housing
MacDill Air Force Base, Florida

Honor Award Concept Design

Indoor Community Pool Osan Air Base, Korea

Design Organization: Thomas J. Davis/Jung Il Associated
Using Command: Pacific Air Forces
Design Agent: Far East District US Army Corps of Engineers
Base Engineer Organization: 51st Civil Engineer Squadron

This new community pool enhances the quality of life for our airmen and their families by providing a much needed recreational opportunity at this overseas installation as well as promoting physical fitness. Buildable land is severely restricted on the highly developed air base at Osan, Korea. The geometry of the indoor community pool floor plan and placement of spatial functions is highly influenced by a myriad of site factors, and the resulting design adapts to the existing surroundings while meeting the recreational needs of the community. Force protection is addressed by the arrangement of the mechanical rooms to create a blast buffer between the base perimeter to the pool area. The innovative use of color on the building components and on the walkway surfaces adds excitement to the facility. Translucent materials and exterior building lighting integrates the facility with its outdoor activity areas. Two indoor gardens, open to the sky, are placed to bring in more lighting as well as to provide some natural green relief to the man-made environment. Acoustical ceiling banners, translucent sandwich panels, colored concrete walls and floors keeps the design cost efficient and enhances the building's sustainable attributes.



Jurors' Comments

- *Complements the aesthetic fabric of the base, a dynamic place*
- *Succeeded in breaking down massing into an appropriate scale*
- *Nice quality of light from ceiling and window walls*

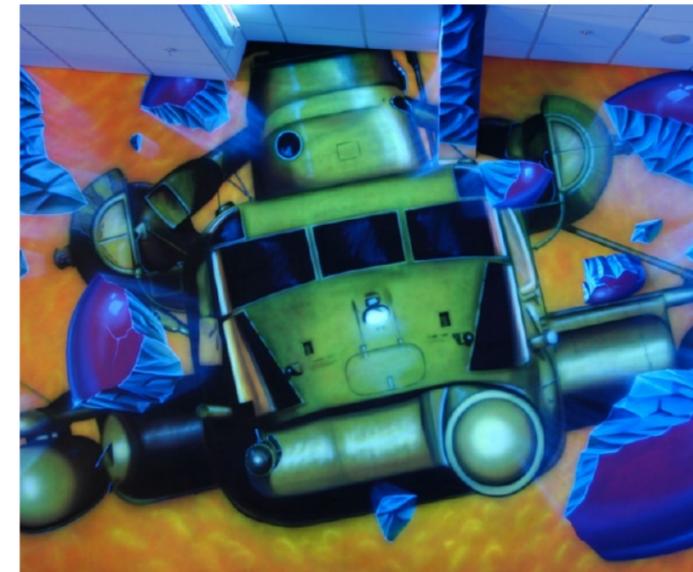
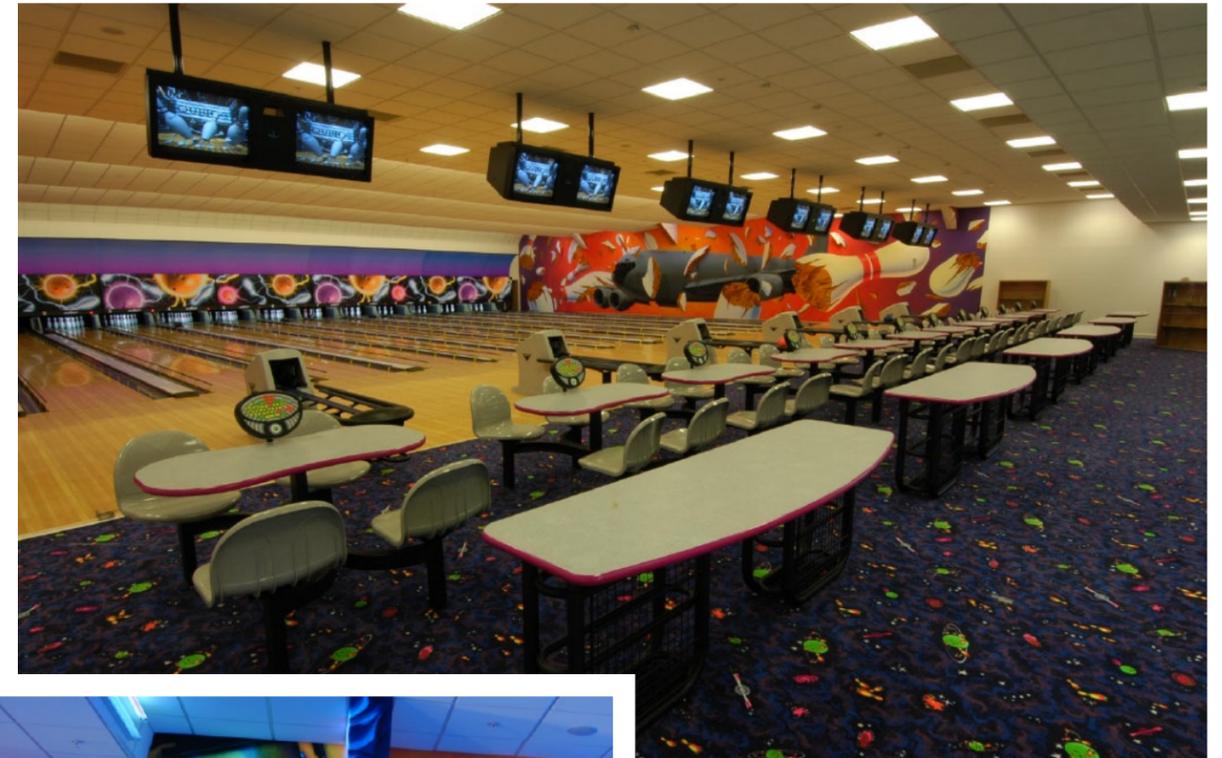
Honor Award

Interior Design

Bowling Center RAF Mildenhall, United Kingdom

Design Organization: Mouchel Parkman Services, Ltd.
Using Command: United States Air Forces in Europe
Design Agent: Defence Estates, US Forces
Design Manager: Air Force Services Agency
Base Engineer Organization: 100th Civil Engineer Squadron

Recreational and social activities have greater importance at many of our bases located in countries where such amenities are not readily available in the local community. This facility replaces a World War II era warehouse that was converted into a bowling center in 1966 and expanded in 1973. The interior layout provides a long uninterrupted clear span across the reception area, snack bar and bowling lanes. Three-dimensional murals of helicopters and tanker aircraft based at Mildenhall were created with special paint that glows under ultra violet light, transforming the bowling center when the ultra violet lights are activated. Surfaces subject to hard wear and tear are finished in easy-to-clean synthetic materials. Indirect lighting and stepped acoustic ceilings work together to provide excellent illumination and lower noise levels. The new Bowling Center provides complementary design features and artwork in an ideal setting for social gatherings.



Jurors' Comments

- *Smartly designed project on a very limited budget*
- *Lighting is cleverly employed*
- *There is a "WOW" factor*



Honor Award Landscape Design

Davis Park MacDill Air Force Base, Florida

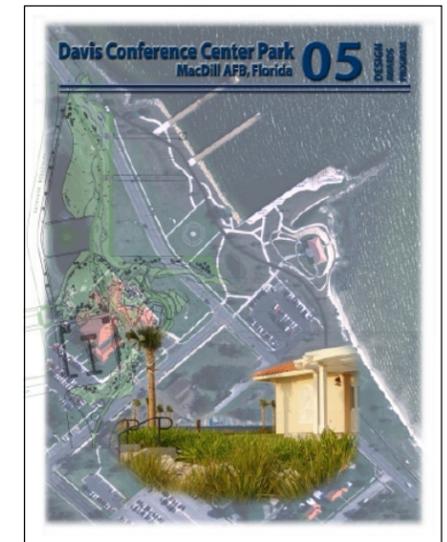
Design Organization: Chugach Management Services
Landscape Design: David Connor & Associates
Using Command: Air Mobility Command
Base Engineer Organization: 6th Civil Engineer Squadron

Providing attractive and functional recreational space while at the same time reducing maintenance costs is an important Air Force goal. Davis Park transformed a valuable but underutilized waterfront location into an accessible, environmentally sustainable park. The primary component of the design is a ten-foot-wide jogging path, traversing the project from north to south. The path diverts from its typical long straight alignment to graciously curve through the park, passing through large stands of native grasses and shoreline plantings. Native plants were replanted along the project site as a means of reestablishing a natural coastal shoreline. Limestone boulders replaced the old seawall as a natural shoreline break adjacent to the fishing pier and boat basin. Shell rock paths wind through the grass plantings allowing for access to more remote and quieter portions of the project away from the jogging path. The park is a culmination of landscape architecture, innovative sustainability measures, and a strong thematic design. Maintenance requirements are minimal for this site that previously required regular mowing.



Jurors' Comments

- *Strong visual concepts and design theme*
- *Excellent sustainability measures/ natural & reuse of materials*
- *Strong plant scheme – attractive, appropriate for environment*

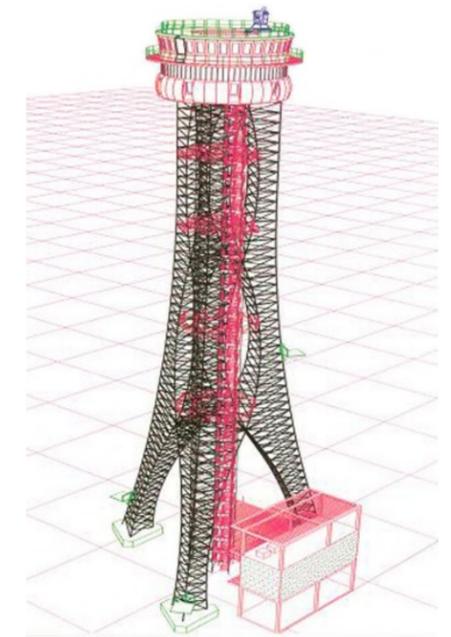


Honor Award Facility Design

Santa Rosa Tower Eglin Air Force Base, Florida

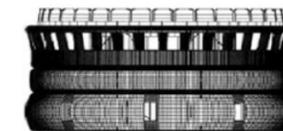
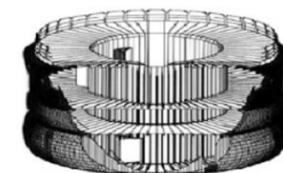
Design Organization: B.L. Harbert International
Using Command: Air Force Materiel Command
Base Engineer Organization: 96th Civil Engineer Group

Providing realistic weapons system testing is an important part of the Air Force's mission. This facility provides a stable, freestanding 300-foot tower with maximum flexibility as one of three test sites for the Open-Air Hardware-in-the-Loop program. The tower's rigidity maintains close sway tolerances in typical wind conditions, and the unique elevator can lift 17,500-pound loads. The galvanized steel structure features three legs and a three-story fiberglass Skypod, and is able to withstand 130-mph hurricane-force winds. The design of the tower allows for a complete top hemispherical view, and the structure is designed for a 50-year lifespan. The tower houses a flight motion simulator and can be operated as a stand-alone facility or in conjunction with other test facilities on Eglin land and water ranges. The tower design incorporates maximum flexibility with numerous features to accommodate a variety of test setups. It has already been used to support offshore weapon testing as a telemetry station and has supported Navy and Marine training exercises as an observation platform. Area residents have lauded the tower as a local landmark on the beach.



Jurors' Comments

- *Has become a landmark for the community*
- *Took a potential negative and turned it into a positive*
- *Exceeds its technical program*
- *Form follows function: exceptional solution to a technically demanding program*
- *Tower structure is elegant!*



Honor Award

Family Housing

Replacement Family Housing Mountain Home Air Force Base, Idaho

Design-Build Team: Parsons Evergreene, Design West, KCB Architecture

Using Command: Air Combat Command

Design Agent: Seattle District US Army Corps of Engineers

Base Engineer Organization: 366th Civil Engineer Squadron

Providing quality housing for our Air Force families has lasting positive impact on retention and the overall Air Force mission. These new homes provide efficient, flexible, modern spaces within a richly detailed Craftsman-style neighborhood. The home designs are historically articulated and spatially traditional while allowing flexibility in furniture placement, and appropriate functional relationships. Tree-lined pedestrian friendly streetscapes with convenient walking paths, as well as intimate front yards with raised large porches encourage residents to interact in the neighborhood. Warm, natural materials of stone and accent-colored shingle siding give vitality and interest to the facades. Formal entryways feature earth-toned ceramic tile and detailed wood columns. These columns rest on half-high wood-capped walls and support a segmental arched header to frame the view to the adjacent stairway and living spaces. Particular attention to detail in each aspect of the design creates a warm, inviting atmosphere for the residents.



Jurors' Comments

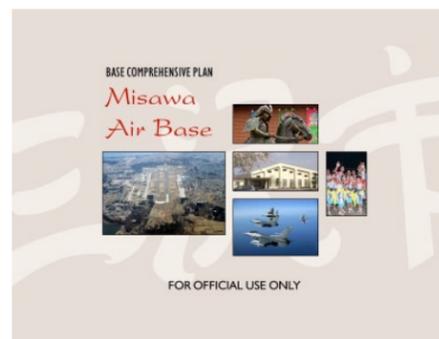
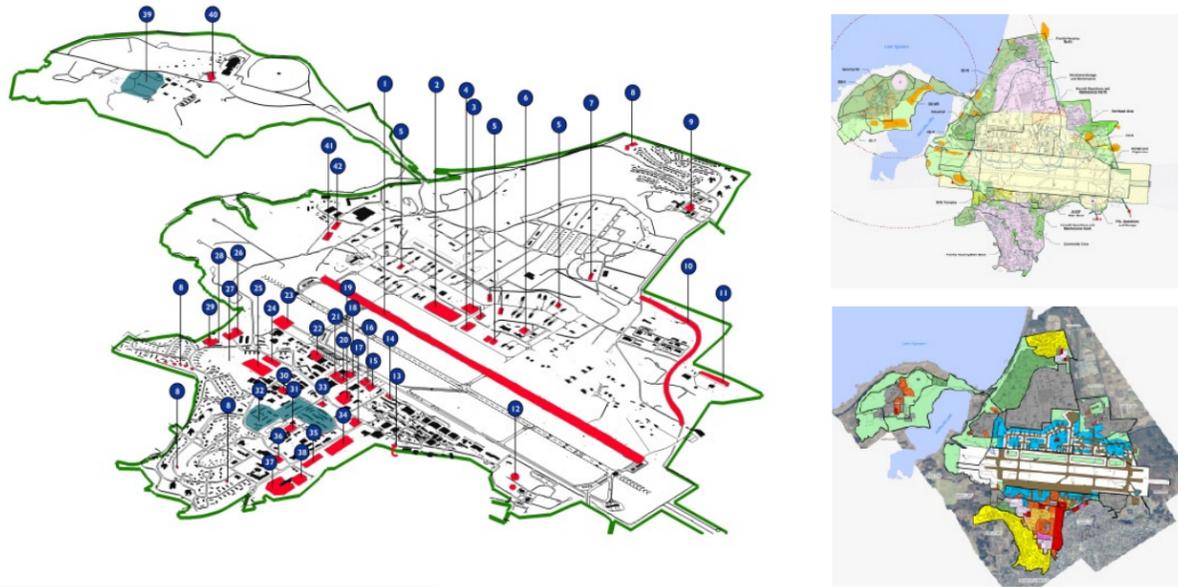
- *Excellent example of 'craftsman style' which relates well to the historic context*
- *Creative solution in placing duplexes on corners, making them appear as single dwellings*

Merit Award Planning Studies

Base Comprehensive Plan Misawa Air Base, Japan

Design Organization: Nakata Planning Group, LLC
Using Command: Pacific Air Forces
Base Engineer Organization: 35th Civil Engineer Squadron

Planning for future growth and expanding mission requirements has always been an important aspect of installation design. This new Base Comprehensive Plan is the most comprehensive, in-depth study of Misawa Air Base on record. Eight primary installation goals serve as a foundation for base development decisions, ensuring Misawa remains poised to fully meet the current mission while accommodating future missions to the greatest extent. Each respective unit, service, and agency on the base was engaged in the development of the plan by attending meetings and providing feedback via an interactive website. The comprehensive evaluation of the installation resulted in the creation of 13 separate planning sub-areas. Each sub-area has its own identity, requirements, and plan proposals. These areas provide common-sense boundaries for future detailed area development planning. An important sustainability aspect included codifying key open space areas rather than using them as a "land bank" for future development. Misawa's General Plan is an all-encompassing tool, readily updateable for installation planning and decision-making.



Jurors' Comments

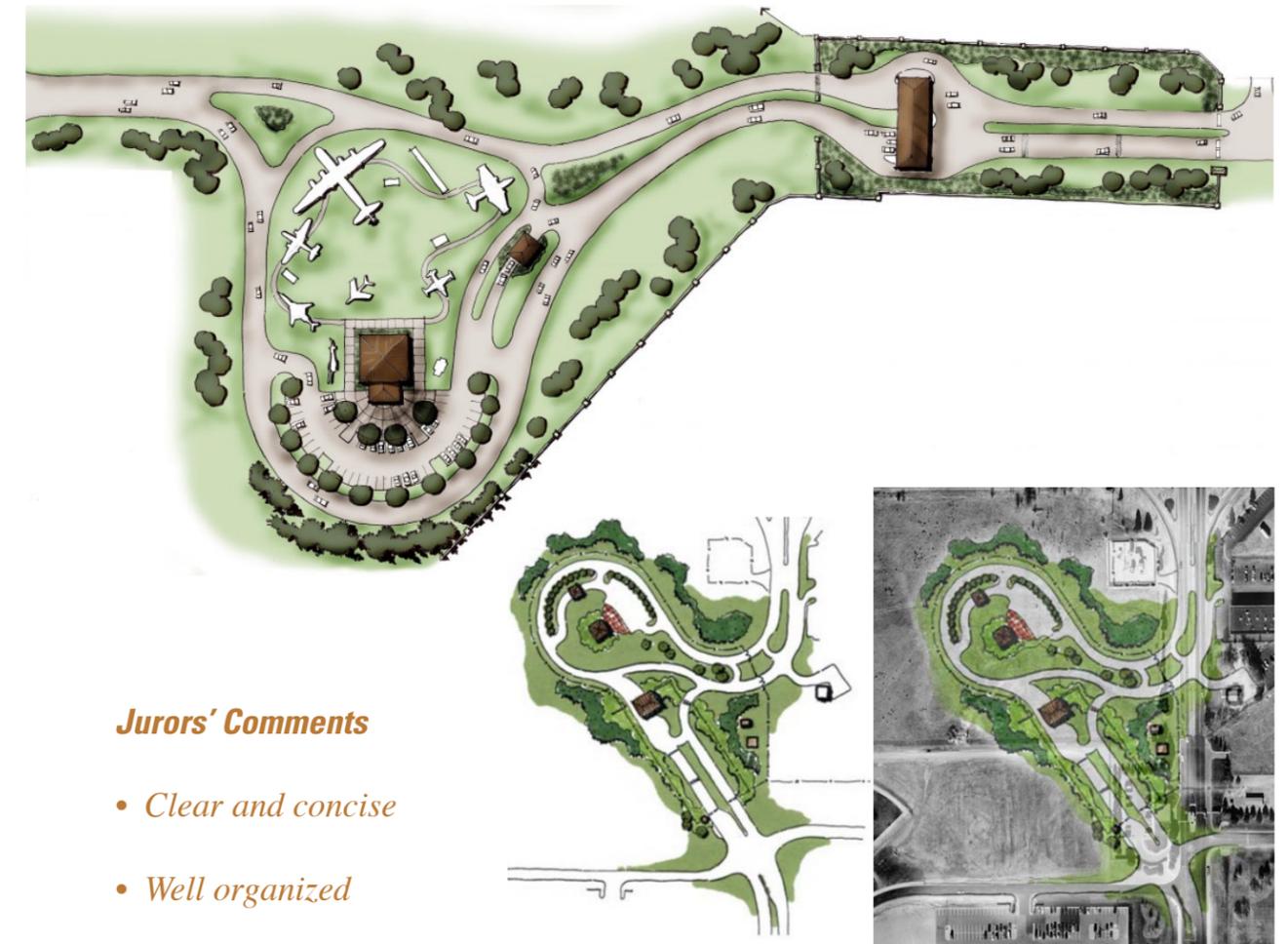
- Comprehensive land use/sub-area analysis
- Attractive and easy to read, nicely integrating text and graphics
- Excellent systematic analysis

Merit Award Planning Studies

Entry Facilities Master Plan Air Force Space Command Installations

Design Organization: Parsons Evergreene Design-Build Team
Using Command: Air Force Space Command
Design Agent: Air Force Center for Environmental Excellence

Controlling access to our installations is the first line of defense in protecting our forces. This Master Plan creates functional and aesthetic base entries for 21 sites among 8 Air Force Space Command installations. The design concepts incorporate current Air Force design standards for entry gates, but each plan is sensitive to existing environmental conditions, highway access, historic districts, and other existing site features and facilities. The development of alternative plans for each gate was based on three scenarios: the maximization of existing site resources, a clean slate approach where only new facilities would be considered, and the best combination of existing and new facilities. Sustainable features of each concept included storm water management, water efficient landscaping, energy efficiency goals for building design and equipment selection, and the use of recycled materials. The plans for each of the installations offer increased security and improved traffic flow and management.



Jurors' Comments

- Clear and concise
- Well organized
- Comprehensive design taken to max degree

Merit Award Sustainable Design

Consolidated Support Facility Edwards Air Force Base, California

Design Organization: Edward J. Cass & Associates
Using Command: Air Force Materiel Command
Design Agent: Louisville District US Army Corps of Engineers
Base Engineer: 95th Civil Engineer Group

Building facilities that have minimal impact on the environment is an important goal that applies to every new construction project. As the most visited public facility at Edwards Air Force Base, the Consolidated Support Facility's open floor plan and curved ceilings create an engaging and functional environment. This architecturally significant facility has the built-in flexibility to satisfy current space and organizational needs and meet future occupancy changes. With a LEED Silver rating as a primary design goal, sustainable design solutions focused on an ice bank storage system, energy efficient lighting, and native xeriscape landscaping with water efficient irrigation. The ice bank storage system produces ice for cooling at night when electricity rates are at their lowest. The building's location on the site minimizes disrupting the existing green space which is very valuable in the base's desert environment. Recyclable building materials included ferrous and non-ferrous metals, native rock, granular fill, and gypsum products. The facility's colors and materials mimic the natural desert experience creating a unique blend between the natural and built environments.



Jurors' Comments

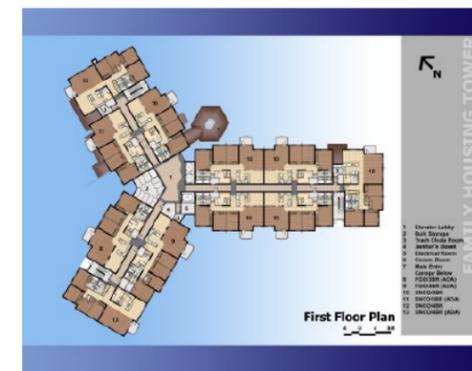
- Well documented holistic approach
- Embodies Air Force desire to strive for sustainable design
- Energy cost reduction in a high energy cost area
- Goes above the standard

Merit Award Concept Design

Family Housing Tower Osan Air Base, Korea

Design Organization: Thomas J. Davis/Jung Il Associated
Using Command: Pacific Air Forces
Design Agent: Far East District US Army Corps of Engineers
Base Engineer Organization: 51st Civil Engineer Squadron

Providing safe, functional and attractive on-base housing for our Air Force families in a very densely populated area of the world is of paramount importance, not only due to security concerns, but also due to limited availability and quality of off-base housing. The architectural theme of this housing tower and its accented earth-tone colors conforms to Osan Air Base's architectural standards and also reflects Korean culture. The site's topography presented challenges in accommodating the housing tower and the required number of associated parking spaces. These challenges were met by using the site contours with minimal earthwork. By utilizing differing elevations for various entry points for both the tower and parking structure, floor areas are used to their maximum efficiency. The tower's articulated roofline "softens" the large mass of the building and is a reflection of the base's hilly terrain. These multi-level roofs with deep overhangs emphasize horizontality and evoke the character of traditional Korean houses. Energy conservation measures in the building include a high degree of thermal insulation in the wall and roof construction, multiple switching of lighting fixtures and the use of dimming controls.



Jurors' Comments

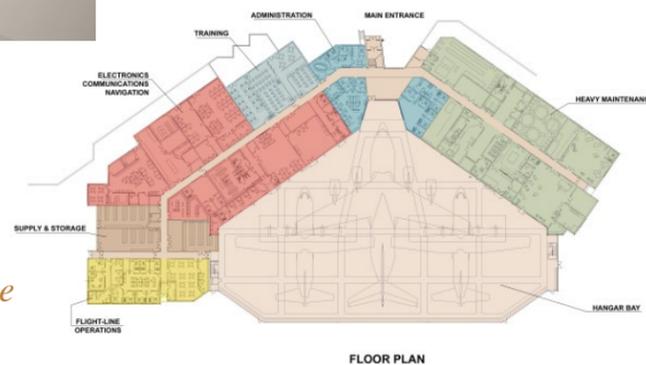
- Very well thought out
- Variation in unit design and massing helps to add interest for this large structure
- Challenge in constrained site was a major issue, but was overcome by an excellent design solution

Merit Award Facility Design

Aircraft Maintenance Complex Tennessee Air National Guard, Nashville

Design Organization: URS Group, Inc.
Using Command: Air National Guard
Design Agent: US Property and Fiscal Office for Tennessee
Base Engineer Organization: 118th Civil Engineer Squadron

Consolidating functional space for the Tennessee Air National Guard, this maintenance hangar will increase man-power and labor efficiency for maintaining the 118th Airlift Wing's current fleet of C-130 aircraft. As a replacement for five existing facilities, this new structure makes efficient use of limited land area. Shaped roof slopes and stone retaining walls blend nicely with the surrounding facilities and landscape. The brick and cast stone base effectively reduce the scale of the building. The unique "V shaped" plan separates "dirty" maintenance functions from "clean" processes and maintains a logical workflow. The shape of the building contributes significantly to the forward-looking image of the Tennessee Air National Guard and promotes a new identity for Nashville International Airport.



Jurors' Comments

- *Wrap around design with the use of multiple airframes will allow the guard to adapt to many different mission changes in the future*
- *Stealth form gives it a unique shape ... able to lower the roof to help minimize the volume and reduce scale*
- *Very strong functional organization ... a great workplace*

Merit Award Interior Design

Dining Hall Renovation United States Air Force Academy, Colorado

Design Organization: Lantz-Boggio Architects, P.C.
Using Command: United States Air Force Academy
Base Engineer Organization: 10th Civil Engineer Squadron

This renovation provides Airmen with quality food service in an energy efficient facility. Strong design elements create appropriate area separations for cadets, Airmen, and private party customers. Simple wood, stone, and metal architectural elements are juxtaposed against the natural mountainous background. Detailing is consistent with the composition and rhythm of the Academy. The customer experiences a sequence of integrated spaces beginning with the entry canopy, continued through the vestibule into the servery area, then on to the dining space and the plaza. Diners may choose between three diverse areas for dining and socializing, and a fireplace serves as the focal point for the facility.



Jurors' Comments

- *Handsome response*
- *Maintained architectural integrity of area*
- *Enhances users social environment*

Merit Award Facility Design

Passenger Terminal Canopy and Force Protection Andrews Air Force Base, Maryland

Design Organization: HSMM
Using Command: Air Mobility Command
Base Engineer Organization: 89th Civil Engineer Squadron

This project successfully integrates architectural and engineering designs for canopies and force protection barriers that meet current antiterrorism and force protection regulations. By incorporating canopied walkways, entranceways, force protection barriers, site circulation, parking design and a distinguished visitor staging area, the designers enhanced the form and aesthetics of the existing terminal. Vehicle access and circulation within the standoff zone have been greatly improved by the newer, more efficient entry control system. The durable, attractive, and low-maintenance materials of the terminal canopy and barrier wall successfully meet the base's operational, aesthetic, and security requirements



Jurors' Comments

- *Unique and elegant solution to force protection*
- *Solved more than one issue*
- *Force protection elements are well disguised*



Merit Award Facility Design

Consolidated Support Facility Barnes Air National Guard Base, Massachusetts

Design Organization: Oak Point Associates
Using Command: Air National Guard
Design Agent: US Property and Fiscal Office for Massachusetts
Base Engineer Organization: 104th Civil Engineer Squadron

As a joint use structure housing the Security Forces Squadron and the Combat Arms Training and Maintenance group, this new facility meets the varied needs of each group and shares space whenever possible to reduce the need for redundant facilities on the base. It successfully establishes an identity for the tenant by employing a design that resembles each tenant's mission. The building form relates to the functional requirements of surveillance, protection, and authority. The use of a varied material palette distinguishes this facility from nearby industrial buildings. Private spaces on the second floor provide visual and acoustical separation from the public areas. This sustainable facility incorporates energy efficient materials while maintaining visual compatibility with the site, the installation, and local area.



Jurors' Comments

- *Excellent expression of the building's use*
- *Fine attention to detail*
- *Palette of materials distinguish it from adjacent buildings, yet ties it into the local fabric*



Merit Award Family Housing

Replacement Family Housing MacDill Air Force Base, Florida

Design-Build Team: Baker & Associates
Using Command: Air Mobility Command
Base Engineer Organization: 6th Civil Engineer Squadron

This housing project replaces an existing regimental grouping of multiple-unit buildings into an inviting meandering neighborhood of attractive duplexes. The project included the development of three housing neighborhoods along Tampa Bay, nestled within an existing golf course. The homes feature open contemporary floor plans with family rooms, master bedrooms with private baths and balconies, and screened porches. The design reinforces the base's Spanish Colonial theme with formal elements and materials, such as stucco and tile. Amenities such as decorative entrance signage, trail systems and playgrounds promote a cohesive neighborhood feel.



Jurors' Comments

- Fits well into the base fabric
- Good massing and appropriate colors
- Inviting and attractive community atmosphere

Citation Award Concept Design

Rescue Wing Headquarters Patrick Air Force Base, Florida

Design Organization: Louisville District, US Army Corps of Engineers
Using Command: Air Force Reserve Command
Host Command: Air Force Space Command
Base Engineer Organization: 45th Civil Engineer Squadron

As the focal point for the Reserve campus, this headquarters facility provides management, administrative, and training functions, in a "corporate" setting. The facility will also be a valuable tool to recruit and retain quality personnel. The project utilizes an existing brown field site and the resulting three-story design offers commanding views of the Banana River and space launches from Cape Canaveral. This non-institutional building embraces its surroundings, allowing an abundance of natural light, spectacular views, prevailing breezes, and access to wildlife. Second and third floor trellised roof decks can easily be converted into interior spaces should the need arise. Strategies for achieving a LEED Silver rating are seamlessly woven into every aspect of the concept. Additionally, the design limits potential hurricane storm surge damage.



Jurors' Comments

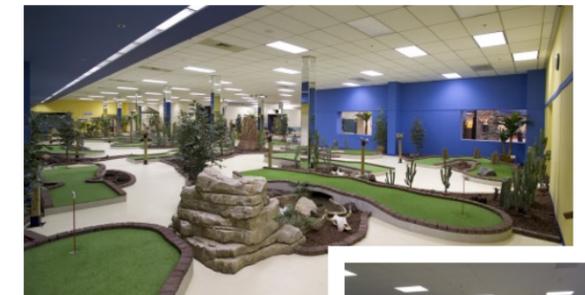
- Transformed an existing brown site by applying numerous sustainable design principles
- Overcame many site constraints
- Good flexibility and choice of materials

Citation Award Interior Design

Arctic Oasis Community Center Elmendorf Air Force Base, Alaska

Design Organization: 3rd Civil Engineer Squadron/CEC
Using Command: Pacific Air Forces

This renovation transformed an abandoned Base Exchange into a lively community center. The new center provides year-round family activities and recreation in an inviting setting, and contains a wide variety of recreation and exercise equipment, including a popular climbing wall. Bright colors and furnishings were chosen to contrast with the often monotone sub-arctic environment, brighten the spirits of the customers, and encourage activity. Adjacent family areas allow for parental supervision of children playing in other areas of the center. The unique design of the center allows staff to unobtrusively monitor activities. The renovation has successfully established a greater sense of community among the installation's personnel and families.



Jurors' Comments

- Excellent example of reuse
- Resourceful in the reuse of materials and response to existing conditions
- Improved recreational environment for community

Citation Award Facility Design

Entry Gate Realignment Wright-Patterson Air Force Base, Ohio



Design Organization: Barge, Waggoner, Sumner & Cannon, Inc.
Using Command: Air Force Materiel Command
Design Agent: Louisville District US Army Corps of Engineers
Base Engineer Organization: 88th Civil Engineer Squadron



Realignment of this entry gate has greatly improved vehicular and pedestrian traffic flow and the overall safety of installation personnel. The design also increases base security by relocating off-base parking to be within the new secure perimeter. Relocating two original entry houses to the new entry control point reinforces Wright Field's main entrance while preserving the installation's past. The realignment of the gates and the new entry control point comply with force protection standards and maintain links to Wright Field's aviation and military heritage.

Jurors' Comments

- *Very unique technical solution to historic preservation*
- *Creatively resolved circulation, force protection and site issues*

Citation Award Facility Design

Control Tower Wright-Patterson Air Force Base, Ohio



Design Organization: Edge & Tinney Architects, Inc.
Using Command: Air Force Materiel Command
Design Agent: Louisville District US Army Corps of Engineers
Base Engineer Organization: 88th Civil Engineer Squadron

This new state-of-the-art control tower sits smartly on top of the current Airfield Operations Office and replaces an outdated tower. The renovation of the control center and office areas was also part of this project. The result is a landmark for base personnel that is architecturally compatible while embracing the original 1940's design. Satisfaction with the tower has prompted interest in renovating adjacent portions of the facility. The new tower is the result of good collaboration between a variety of users. It accommodates current mission requirements while respecting the historic context of the original design.

Jurors' Comments

- *Integrates seamlessly into the existing architecture*
- *Great attention to detail*
- *Used symmetry to its advantage*

Jury Members

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Mr. Michael Panczykowski, AIA

Pond & Company
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Architect

Mr. James W. Thompson, RA

US Forest Service
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