

**1992
UNITED STATES AIR FORCE
DESIGN AWARDS PROGRAM**



THE AIR FORCE CIVIL ENGINEER



Background

This Annual Report marks the seventeenth year of the USAF 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 eight project award categories. These award categories include Planning and Urban Design, Design Concepts, Interior Design, Small Completed Projects, Large Completed Projects, Housing Community Plans, Housing Concepts, and Completed Housing Projects.

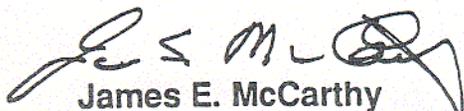
This year the Planning and Urban Design and Housing Community Plan submittals were reviewed by a distinguished jury composed of two members of the American Society of Landscape Architects, one member of the Society of American Military Engineers, and the senior planner from the Air Force Design Group. Interior Design submittals were reviewed by a member of the American Institute of Architects, a member of the Institute of Business Designers, a member of the American Society of Interior Designers and university professor, and the interior designer from the Air Force Design Group. All other categories were reviewed by the Architectural Jury composed of the Interior Design Jury members, two members of the American Institute of Architects, a member of the American Society of Landscape Architects, and the senior registered architect from the Air Force Design Group.

With the selection of this year's award winning projects, the Air Force has honored over ninety completed projects, over seventy concept projects, fifteen planning projects, and seventeen interior design projects since the program began.

The Air Force Design Awards Program is a viable and important program which 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.

"Congratulations to this year's winners. These projects clearly reflect the functional diversity of our Air Force customers. While we should be justifiably proud of these projects, we can't lose sight of the planning and design challenges we'll face as we enter an era of unprecedented change.

I expect Air Force civil engineering to set the standards that define quality, cost-effective construction. Quality facilities are not only expressed in terms of aesthetics and user satisfaction, but also in life-cycle costs and maintainability. Our vision must be long-term, given that the life expectancy of our facilities is far greater than that in the private sector. Quality must be ingrained in every facet of our facility delivery process. The connection between a quality environment and a highly motivated work force has been well documented. Accept nothing less than the highest level of design excellence. We must continue to improve the quality of life for our Air Force people by applying and executing sound planning, design and construction principles as demonstrated by these award winners."


James E. McCarthy
Brigadier General, USAF
The Civil Engineer

XVII Design Awards Program

Award Winners

Planning and Urban Design Merit Award

Base Comprehensive Plan
Peterson Air Force Base, Colorado

Concept Design Merit Awards

Weather Training Complex
Keesler Air Force Base, Mississippi

✕ Student Dormitory
Gunter Air Force Base, Alabama

✕ SOF MH-60 Helicopter Hangar
Hurlburt Air Force Base, Florida

Renovation of Building 518
Bolling Air Force Base, District of Columbia

✕ Centralized Integration Support Facility
Peterson Air Force Base, Colorado

Heritage Park
Eielson Air Force Base, Alaska

Interior Design Merit Award

Renovation of Restaurant #2, Facility 30001
Wright-Patterson Air Force Base, Ohio

Completed Projects Merit Awards

HC-130 Aircraft Maintenance Hangar,
Portland International Airport, Oregon

Squadron Operations Facility
McChord Air Force Base, Washington

Breezeway Entry Renovation & Pedestrian
Mall
Wright-Patterson Air Force Base, Ohio

Renovation of Temporary Lodging Facilities
Eglin Air Force Base, Florida

Weapons System Support Facility
Robins Air Force Base, Georgia

Concept Project

Higginbotham/Briggs & Associates

Base Comprehensive Plan

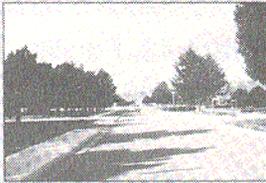
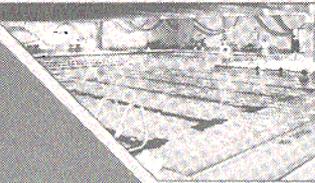
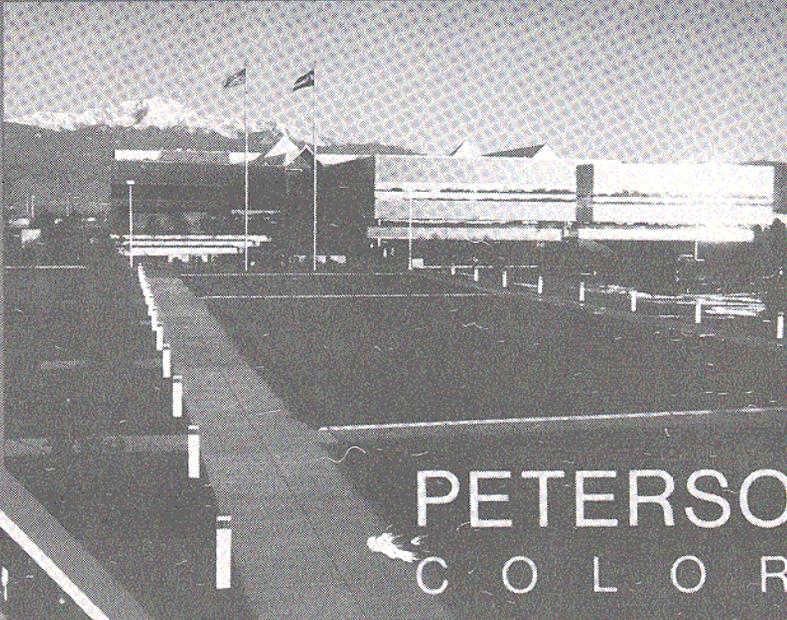
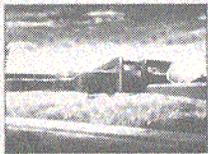
Peterson Air Force Base, Colorado

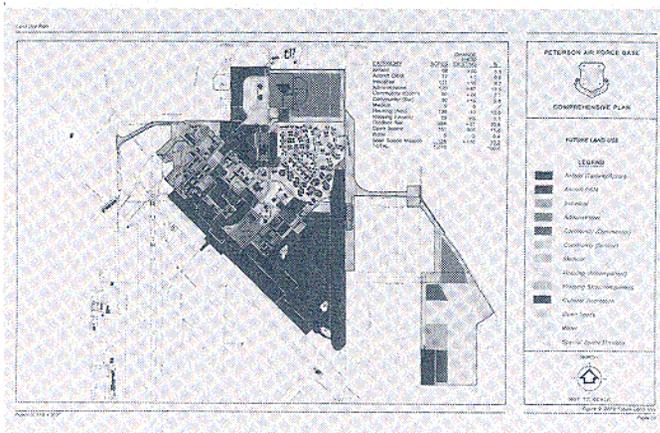
Merit Award

Planner: Higginbotham/Briggs and Associates
Command: Air Force Space Command
Unit: 21st Civil Engineering Squadron

BASE COMPREHENSIVE PLAN VOLUME I

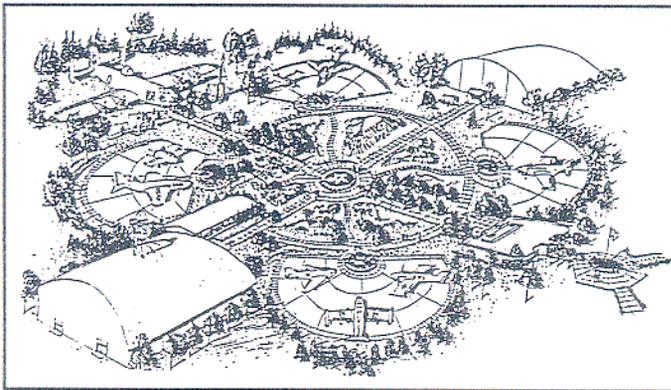
PETERSON AFB C O L O R A D O





The Peterson Air Force Base Base Comprehensive Plan (BCP) is an excellent example of successful "partnering" that resulted in a positive application of planning principles and the delivery of quality, comprehensive guidelines for future base development decision-making. The active involvement of the base staff in concert with the A-E was instrumental in arriving at a thorough analysis of the planning issues and a comprehensive presentation of the planning factors.

The document reflects a strong understanding of the inherent planning concerns and problems, and outlines in a clear and concise process, the solutions and options to resolve them through a dynamic and user-oriented planning process. The recommendations capture the essence of compatible land use planning and provide the basis for improved functional relationships particularly in the base administration area. The plan receives high marks for innovation, transferability, quality, comprehensiveness and implementation. The text is concise and well-written. In combination with the excellent graphics, it provides a detailed and definitive road map for compatible future land use planning and facility development.

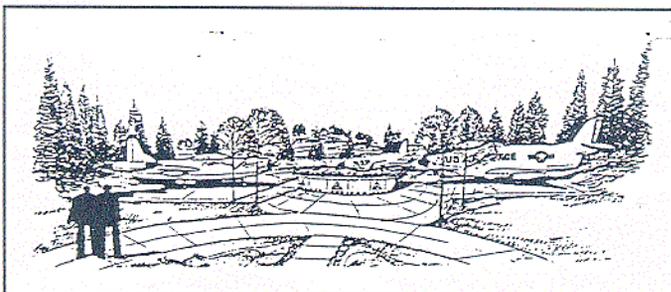
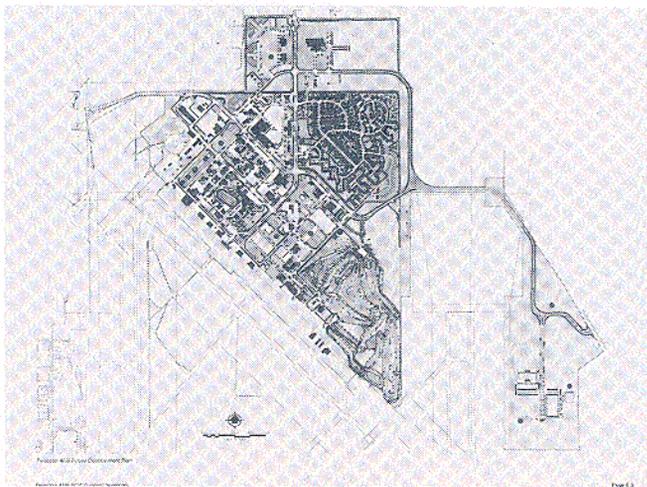


Some of the notable features of the plan include its strong environmental evaluation, a transportation plan that not only addresses creating new streets but also closing existing streets to improve traffic circulation, and excellent design guides that will be a positive force in future development activity. The Peterson Air Force Base BCP is an outstanding document that is thorough, concise and focused in its recommendations to enhance and promote the vitality and growth potential of the base to achieve mission success.

Jurors' Comments:

"...very comprehensive process, analysis and application of planning principles."

"...clear document - clear and crisp in recommendations."



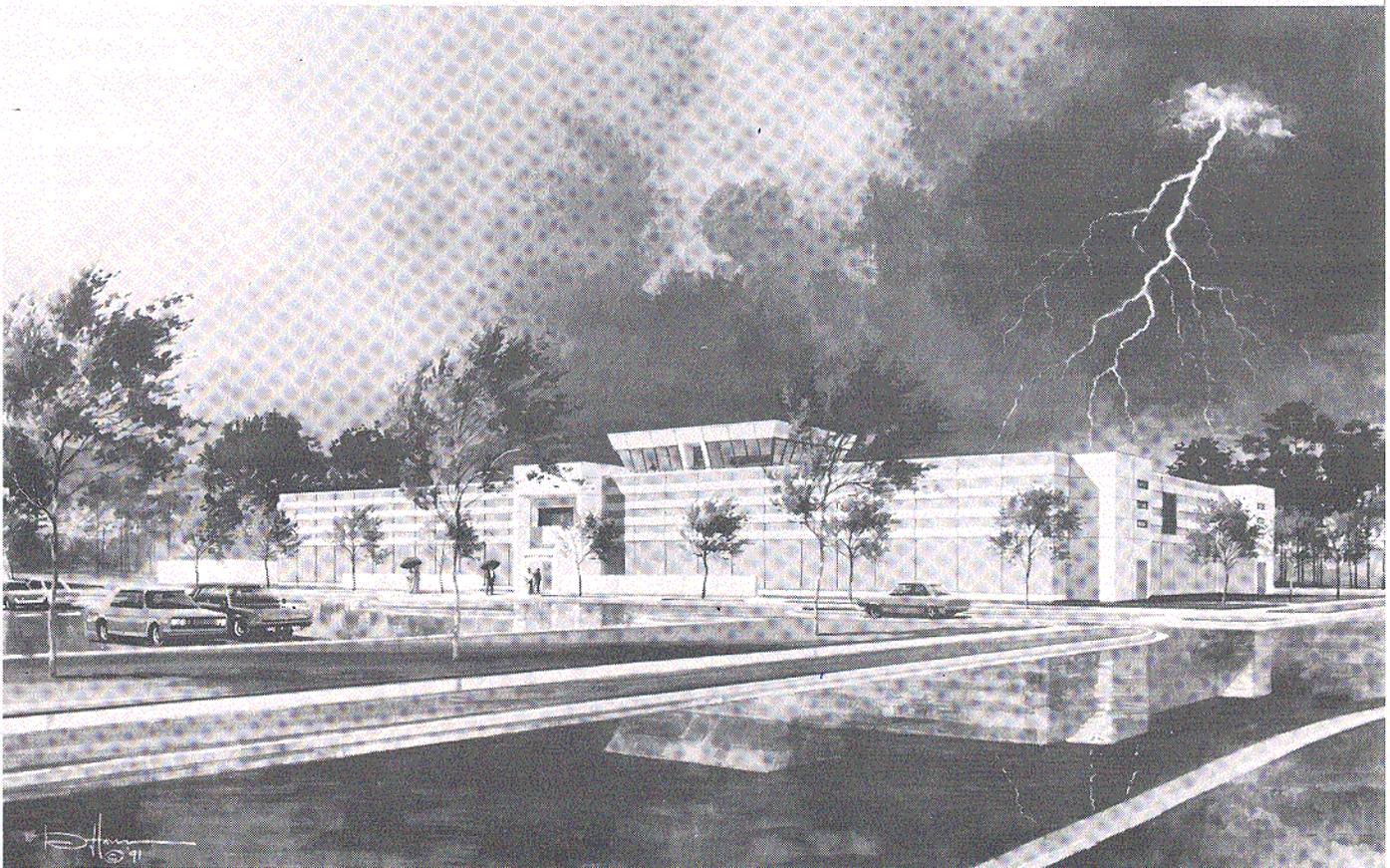
Concept Project

Weather Training Complex

Keesler Air Force Base, Mississippi

Merit Award

Architect: Tippet Clepper Associates
Command: Air Training Command
Unit: 393rd Civil Engineering Squadron
Design Agent: Southern Division Naval
Facilities Engineering Command

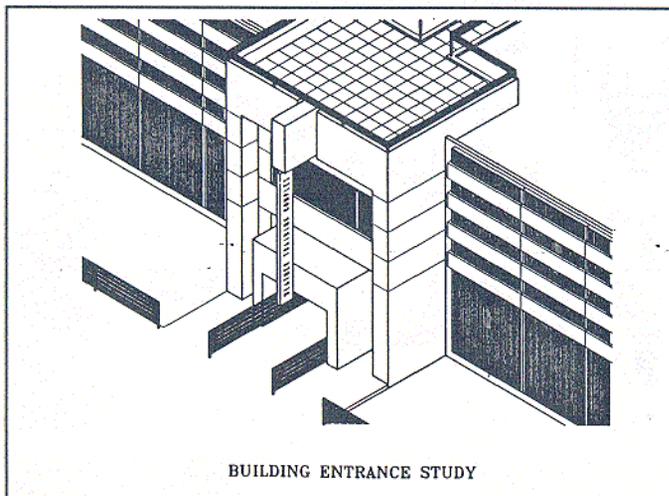
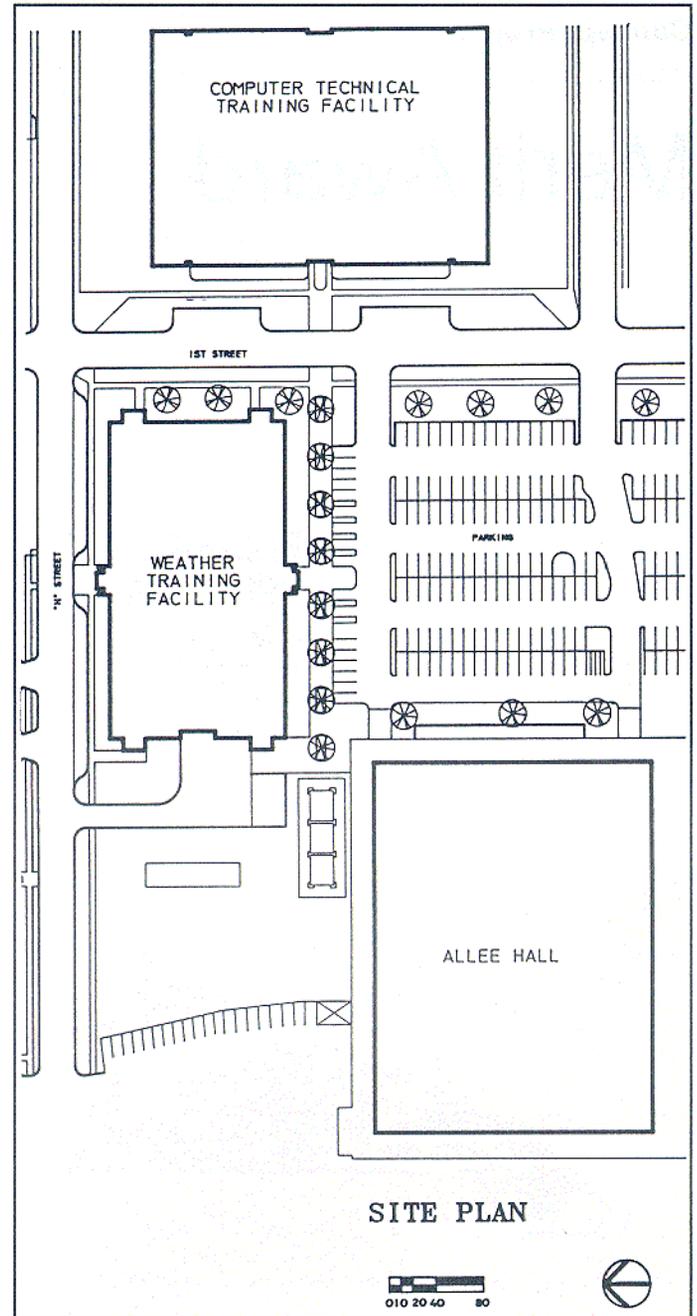


A new 83,700 square foot weather training complex is needed to accommodate training of Department of Defense personnel in meteorology. The weather training operation will relocate from another installation. Because of the changing technology in meteorological training and equipment, flexibility was a major design requirement.

With the exception of the observation tower, the new building will be windowless. Windowless buildings are always a challenge and this was no exception. This feature does however provide for nearly unlimited possibilities for the interior layout. The building features similar room types grouped together, demountable partitions between classrooms, and flexible wire management concepts such as access flooring, floor ducts, and wire raceways above the corridor ceilings.

Architectural compatibility is reinforced through the use of established building materials. The precast wall panels and building entrances are effectively incorporated to give a sense of protection. The windowless exterior walls are articulated with smooth precast, textured precast and a jointing pattern similar to the adjacent buildings. The horizontal banding incorporated into the precast panels also tends to reduce the perceived height of the building and adds interest to the otherwise austere facade.

The siting scheme creates opportunities to develop pedestrian links between adjacent buildings, and shield the service entrance and antenna farm from main pedestrian entrances. The landscaping scheme incorporates indigenous plants with oaks and pines being the predominant trees and palm trees used for accent.



Jurors' Comments:

"...good straightforward plan & exterior."

"...precast banding & articulation interesting."

"...design & plan incorporate efficiency and flexibility."

Concept Project

Student Dormitory

Gunter Air Force Base, Alabama

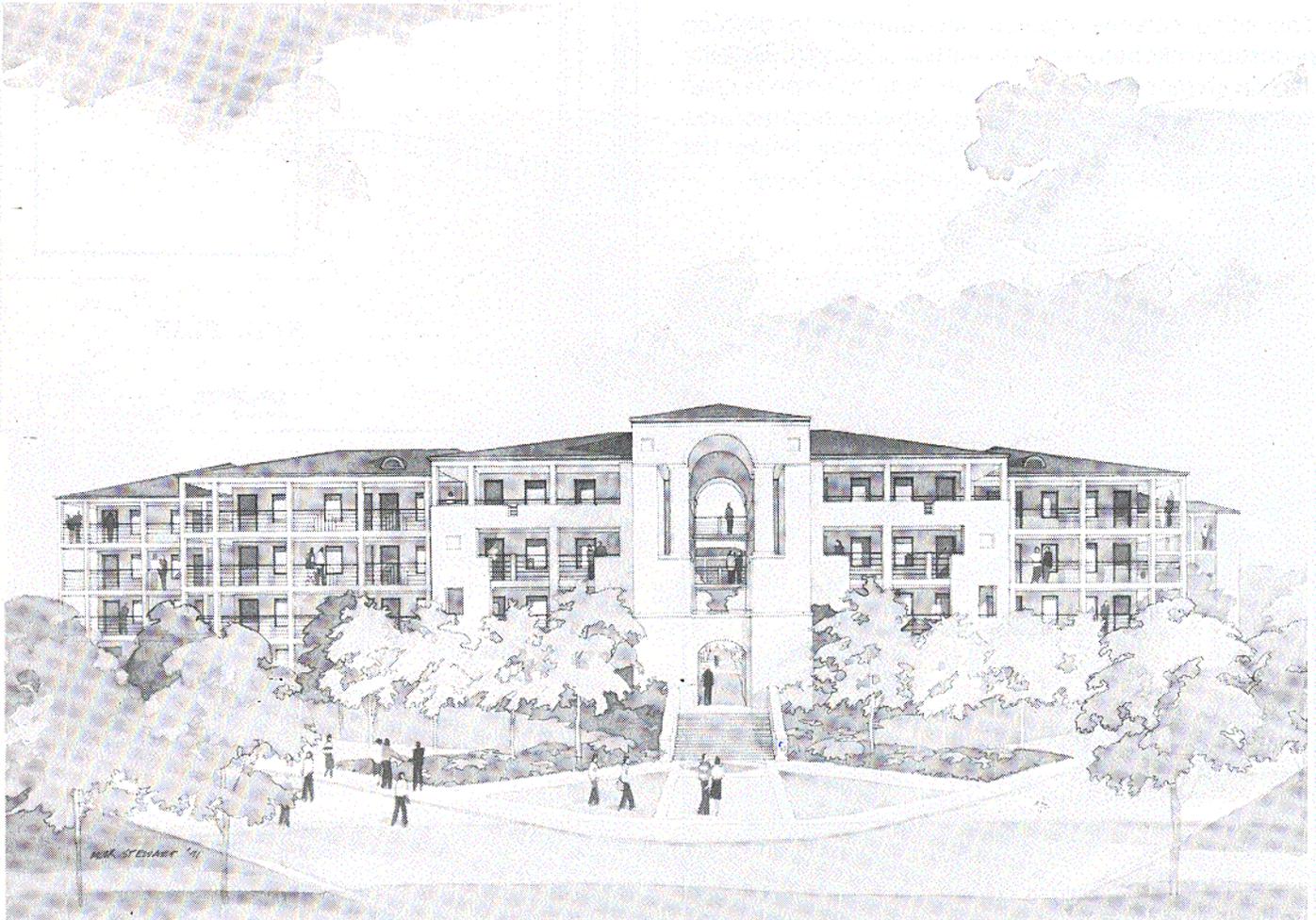
Merit Award

Architect: Seay, Seay and Litchfield

Command: Air University

Unit: 502nd Civil-Engineering Squadron

Design Agent: Mobile District Corps of Engineers



Adequate living quarters are required to accommodate 250 enlisted personnel that serve temporary duty as students of the Senior Noncommissioned Officers Academy. On-base quarters assure these personnel of a comfortable and healthy environment conducive to proper rest and study, convenient to the academic complex.

This quality facility, incorporated within a new comprehensive campus master plan, is considered to be an integral part of the Academy. The design solution is an 85,000 square foot four story building with a central courtyard bordering on the clock plaza. The plaza centers along an axial spine which connects the dormitory area with the academic buildings and serves to collect and direct pedestrian traffic. Staggering blocks of dormitory rooms reinforce the atmosphere of community and work to create a scale that is residential in nature. Several rooms are designed for the needs of the disabled residents and accessibility throughout the entire building is provided through the use of ramps, elevators, and proper hardware.

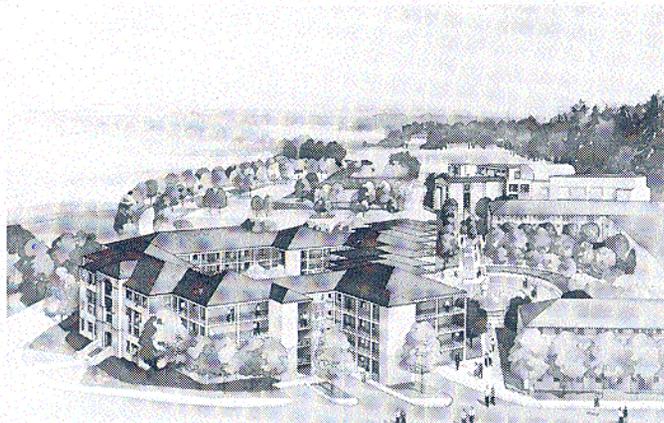
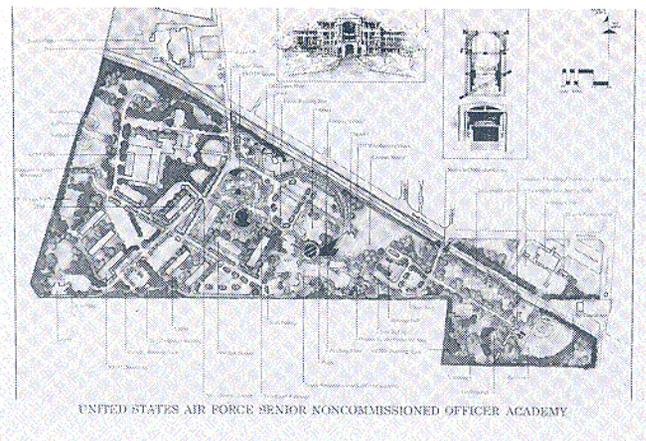
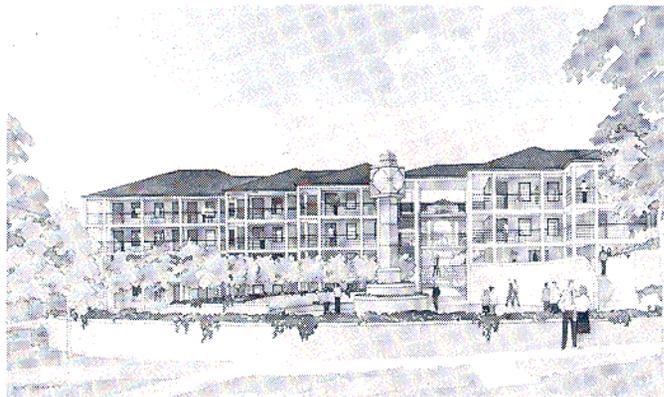
Balconies to the south and west shield the sun's rays on the building surfaces and provide circulation corridors. Exterior building materials will continue the architectural palette already established for the academy complex and provide excellent solar and energy conservation qualities. The large interior courtyard creates a relaxing atmosphere and will also serve as a gathering space given the region's mild climate. These innovative design solutions and state of the art monitoring systems contribute to a highly energy-efficient facility.

Jurors' Comments:

"...nicely broken down by building massing & roof articulation."

"...plan/circulation - straightforward, easy to follow."

"...plaza axis creates interest in the site and breaks down the massing of buildings to a more human scale."



Concept Project

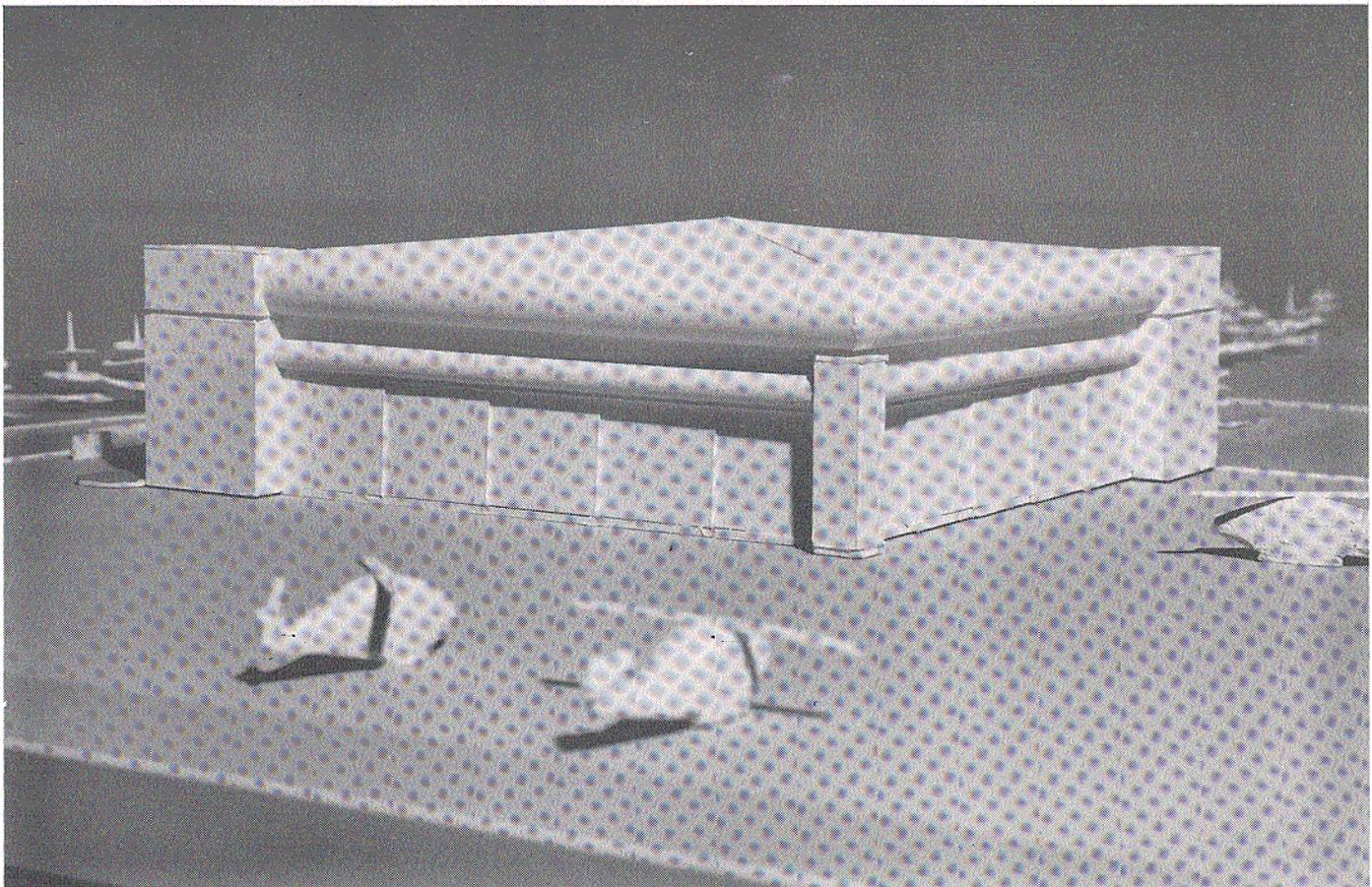
Merit Award

SOF MH-60 Helicopter Hangar

Hurlburt Air Force Base, Florida

Architect: McCall and Associates, Inc.
Command: Air Force Special Operations
Command

Unit: 834th Civil Engineering Squadron
Design Agent: Mobile District Corps of
Engineers



A flexible maintenance hangar facility is required to support the Special Operations Force's aircraft located at Hurlburt Air Force Base, Florida. The hangar will accommodate maintenance activities for either three MH-60 helicopters, two MH-53 helicopters, or the main fuselage of the C-130 aircraft. The facility will also house associated maintenance and warehousing support functions and administrative areas.

The proposed design concept is a simple form for general economy and provides the necessary flexibility given the variety of aircraft to be serviced. The hangar area is square in configuration with two perpendicular hangar doors in lieu of the traditional linear placement of one hangar door. This arrangement allows contiguous maintenance areas on two sides of the building and addresses the special requirements of the three different aircraft. This unique layout lends itself to simple structural elements and lower construction costs.

The building mass very clearly reflects the functional nature of the building. Since the mass of the hangar is so dominant, the accessory one story spaces wrap around the two pedestrian access sides of the facility to create a human scale transition between the administrative areas and the nearby Squadron Operations facility.

The exterior finish material for the hangar, hangar doors, and door pockets are insulated metal panels on a steel frame. The one-story support spaces will be constructed with split-face concrete masonry units. Door and window frames will be anodized aluminum with insulated and tinted glazing.

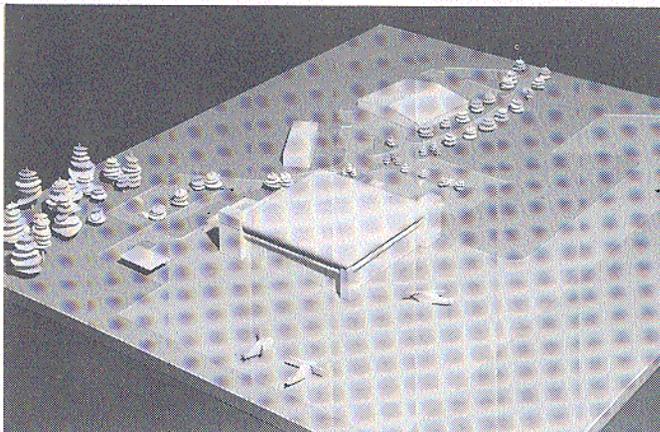
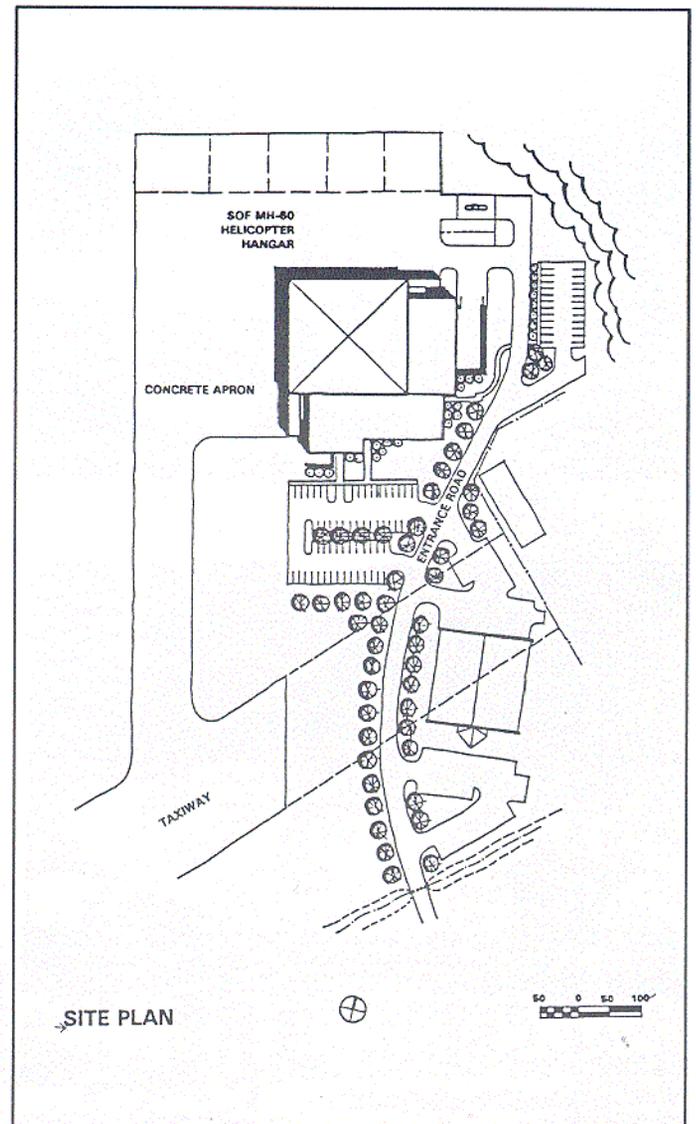
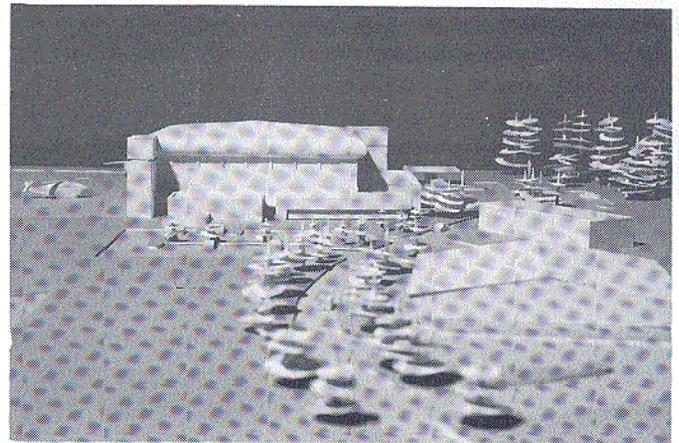
Jurors' Comments:

"...building has great appeal, in concept and form."

"...very simple & logical solution."

"...form emphasizes function..."

"...rolled roof edge has an interesting appeal."



Concept Project

Merit Award

Renovation of Building 518 Bolling Air Force Base, District of Columbia

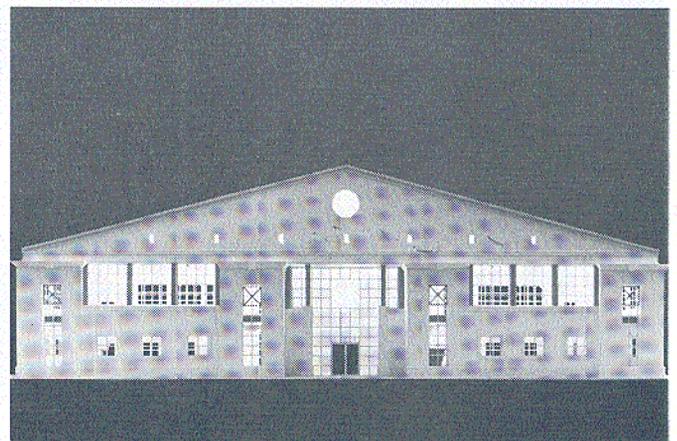
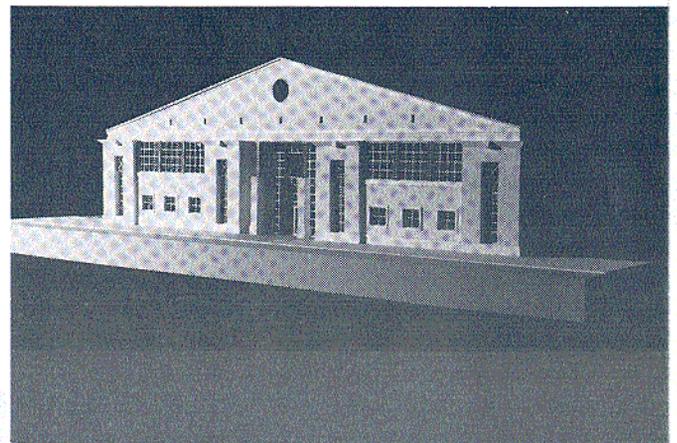
Architect: Baker and Associates
Command: Air Force District of Washington
Unit: 1100th Civil Engineering Squadron



This project exemplifies the challenge encountered when converting an industrial building to an administrative facility. The architects propose two second level floor decks, one on each side of the building. Initially, these will function as storage mezzanines, but are suitable for conversion to office space in the future. The proposed scheme calls for a two-story opening in the center of the building for large vehicle operations that will allow materials to be lifted to the storage mezzanines from the central bay. The upper level floor structure was designed for maximum flexibility. Reinforcement of the historic core of the Base is achieved by renovating a building of mass, scale, material and detail compatible with the surrounding older structures. The architects utilized a standard modular thin brick system laid in a flemish bond to match the appearance and pattern of the adjacent buildings. The brick was complimented by a base and cornice of simulated plaster, carefully detailed to create a contemporary reinterpretation of the stone accents found elsewhere in the historic area. The east and west building elevations feature a large pedimented gable with a central gable vent and four vertical brick elements, all derived from historic references nearby. The glass curtain wall at the upper level and main entrance allows for generous amounts of natural light to enter the building, while the mullion patterns recall the industrial glazing so prevalent in the surrounding architecture. The formal paved space at the building entrance, sensitive placement of landscaping materials, and creative use of a brick screen wall alluding to the base main gate, provides an important connection with the building and streetscape. The result is a building that at first glance fits completely in its context,



Existing Building



Jurors' Comments:

"Integrates well with surrounding buildings."

"This is an outstanding project, exemplary of the Air Force's commitment to excellence..."

"Excellent example of reuse, recycling..."

"...good visual solution..."

Concept Project

Merit Award

Consolidated Integration Support Facility

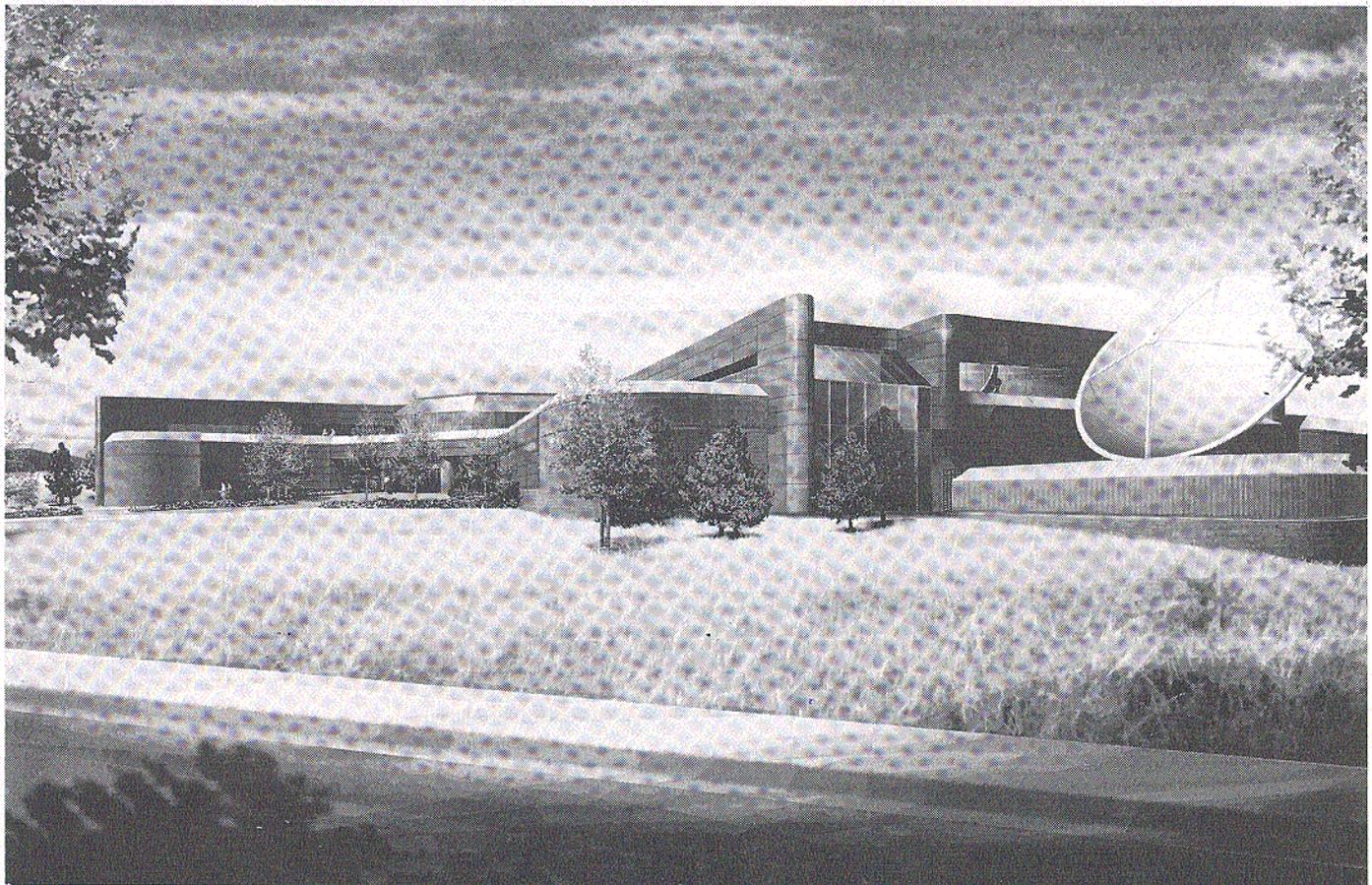
Peterson Air Force Base, Colorado

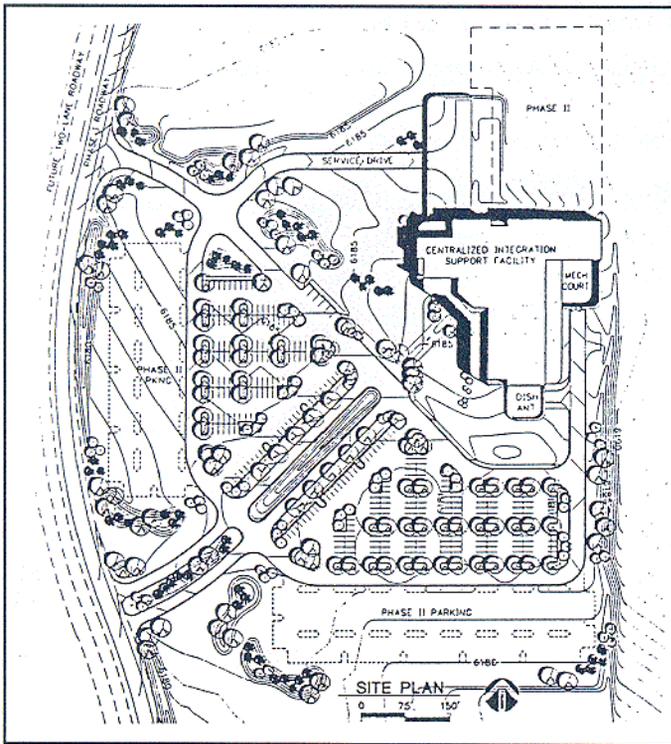
Architect: The Benham Group

Command: Air Force Space Command

Unit: 21st Civil Engineering Squadron

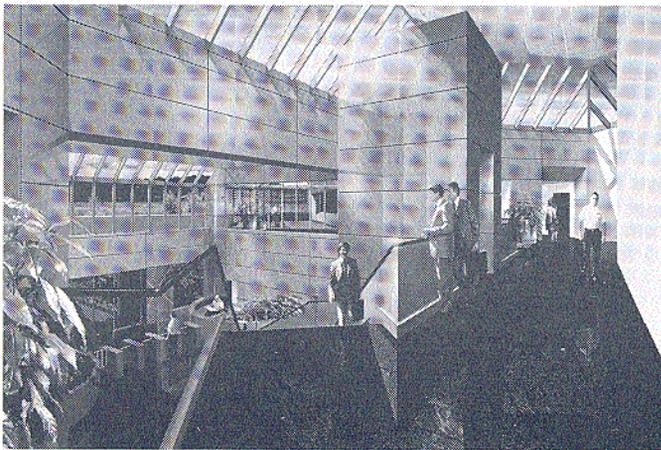
Design Agent: Omaha District Corps of
Engineers





One central ingress/egress point offers a good initial view of the building and the main entrance plaza. A single building entry and the clear zone around the building are security requirements. On the first floor is the Technical area containing computers and technical support functions. The second floor provides space for the majority of the Engineering and Administrative staff. The first floor brick walls solidly anchor the building into its gently rolling site. These monolithic, windowless walls provide the required security for the lower floor activities, and act as a visual foundation for the lighter, more open second floor. The composite metal panels set into the brick walls emphasize the technical function of the building and provide a transition to the full height glazing of the central circulation space. Gentle curves of the composite metal panels occur on the upper floor projections.

A smooth transition between natural grasslands and the building is accomplished through the use of native plants. The intensity of landscape development decreases and becomes more formal in approaching the building. Planting and berms are introduced along entry roads and around the parking lot to screen cars and undesirable views of service areas. These elements create a sense of place and give the site a more intimate scale.



Jurors' Comments:

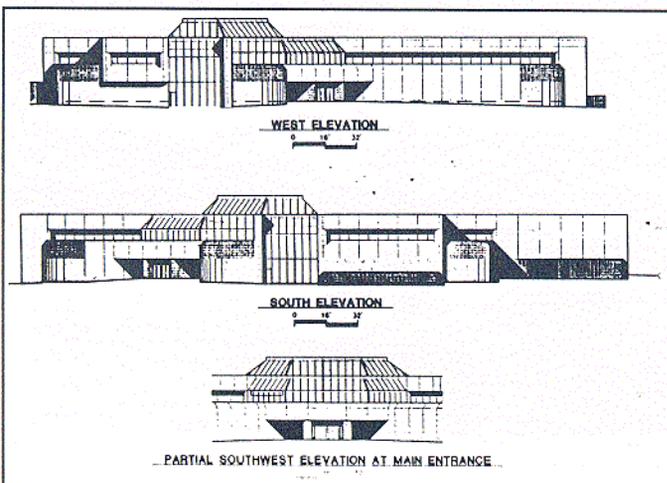
"...massing of forms are interesting..."

"...successful in projecting an image of unassailable high technology."

"Nice site development, separation of services..."

"Response to prairie environment works well..."

"...use of exterior finish materials and interiors space well thought out."



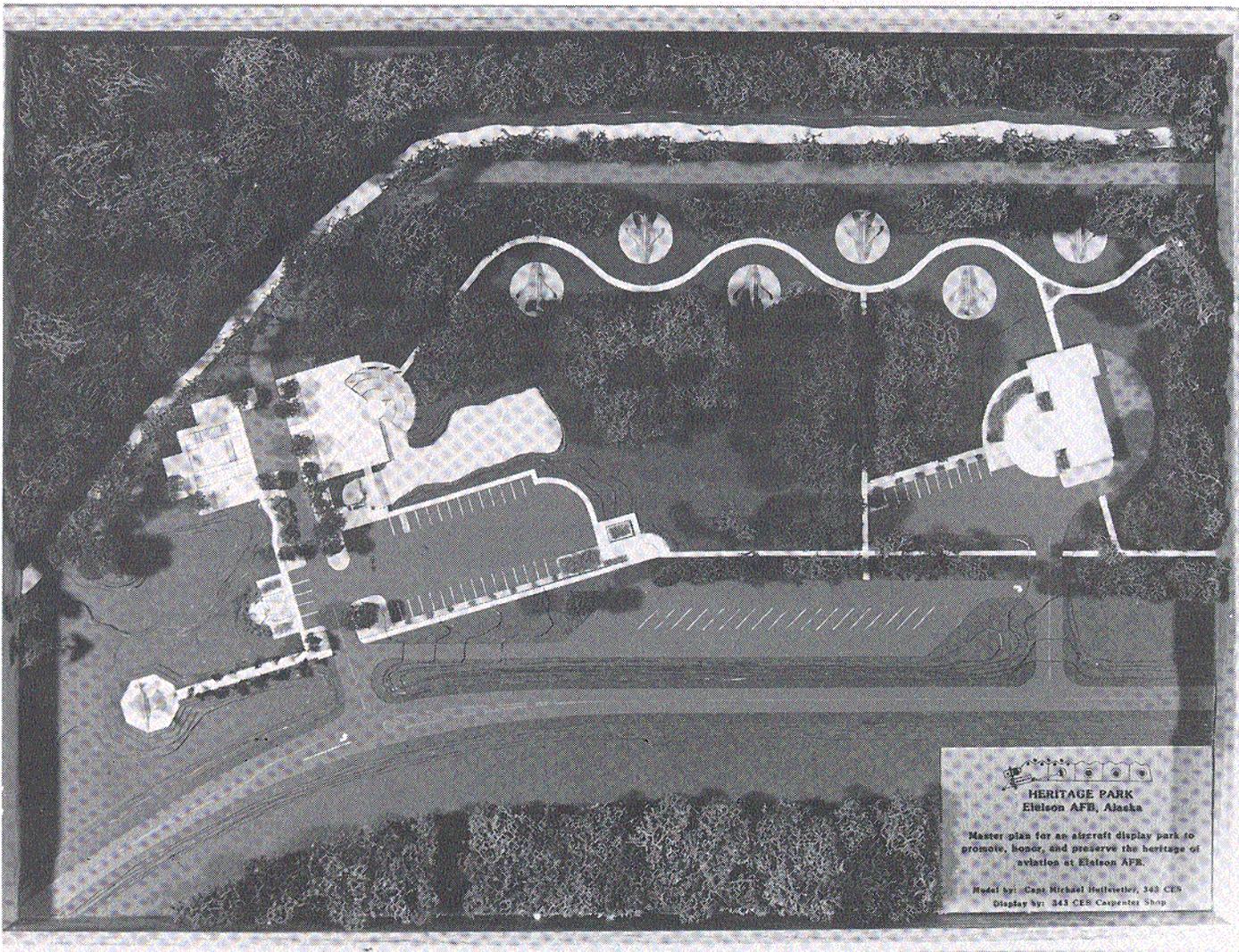
Concept Project

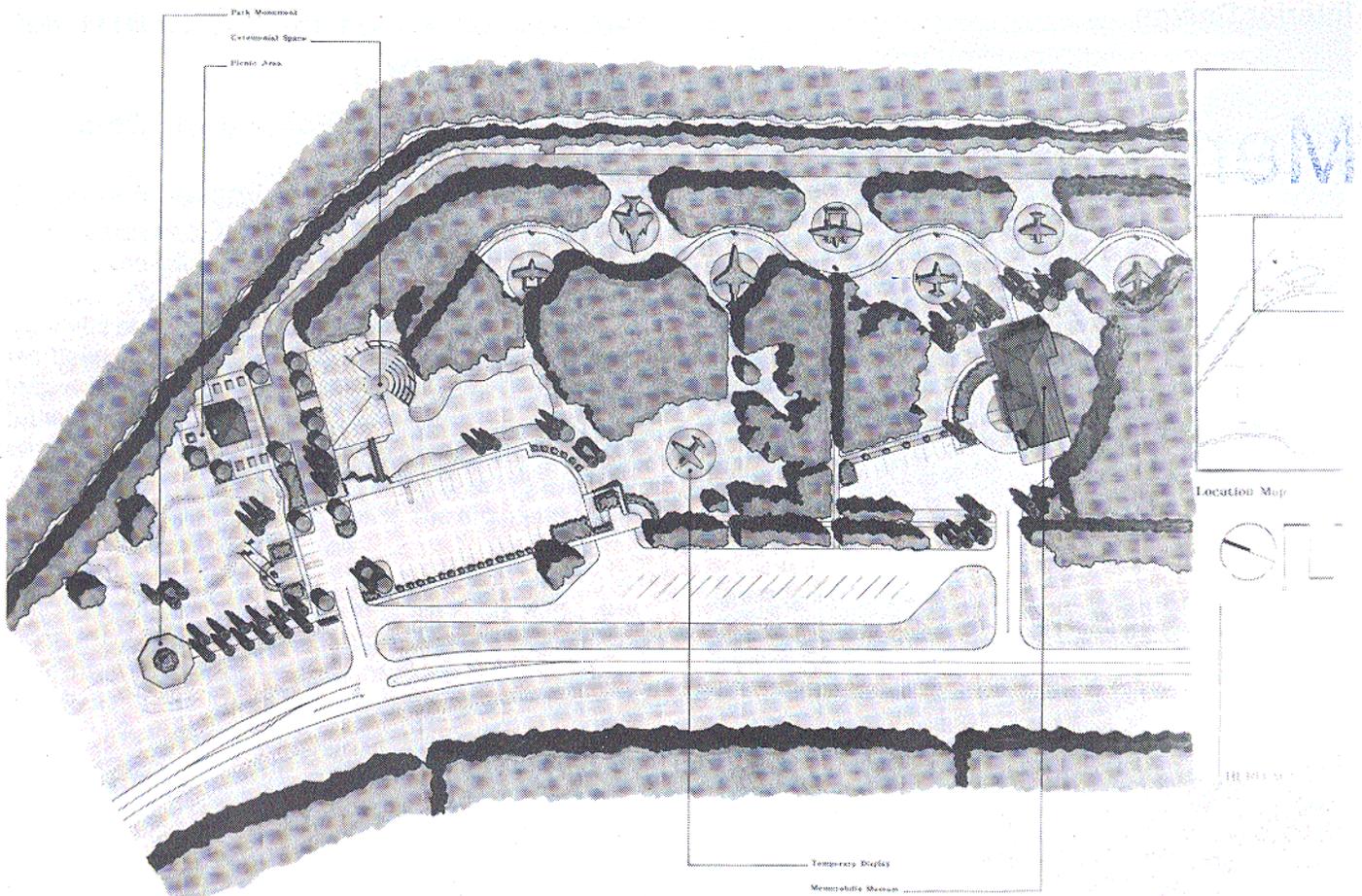
Heritage Park

Eielson Air Force Base, Alaska

Merit Award

Architect: 343rd Civil Engineering Squadron
Command: Pacific Air Forces





The standard way to display static aircraft is to place them in broad, open areas where all the aircraft on display are experienced simultaneously. This comprehensive development scheme proposes a six acre static display park which provides a progression of experiences and views through a natural setting. This progression starts at a waiting/information area adjacent to a parking area, passes through a ceremonial space, proceeds through a Par Course recreation trail system past the individual static displays, and terminates at a monument located near the park entrance. Aircraft are not merely displayed, but are essentially "discovered" by each visitor.

This design solution makes unique use of narrow clearings which provide passing motorists momentary glimpses of the aircraft on display, invoking curiosity and interest.

Jurors' Comments:

"...the logical progression into and through facilities invites you to go through."

"...the design responds to the site appropriately."

"...a strong plan - good presentation of Alaska environment...context appropriate."

"...would be a great place for Base personnel to congregate for awards, etc. Like randomness of walkways with buildings."

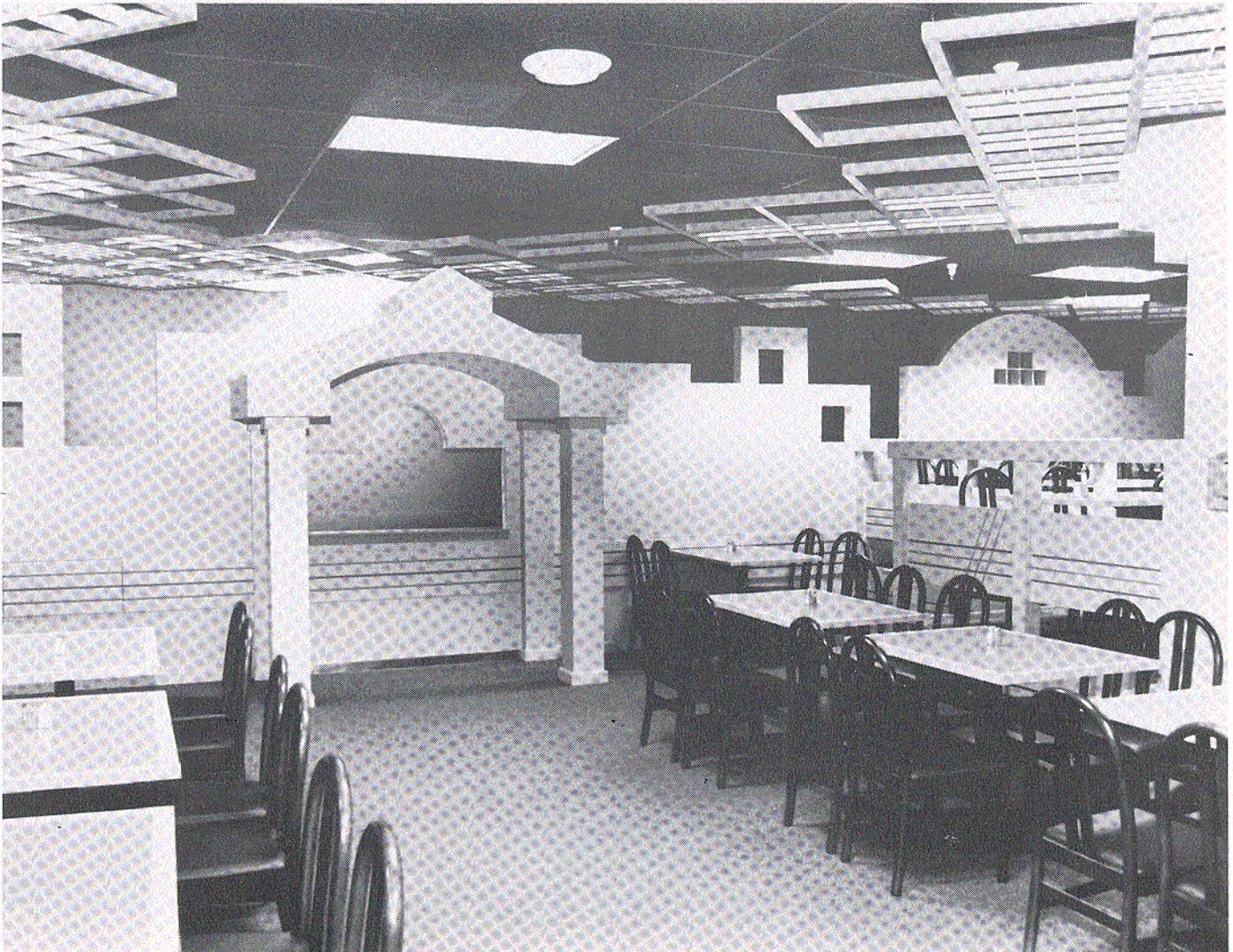
Interior Design

Renovation of Restaurant #2 Facility 30001

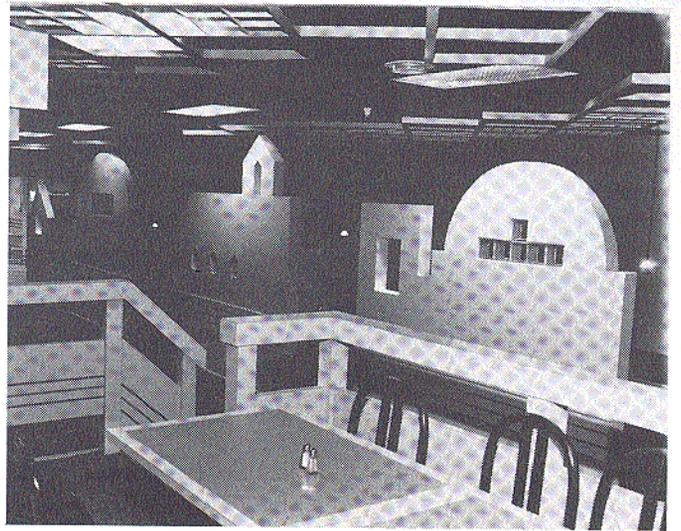
Wright-Patterson Air Force Base, Ohio

Interior Design: 645th Civil Engineering Group
Command: Air Force Materiel Command

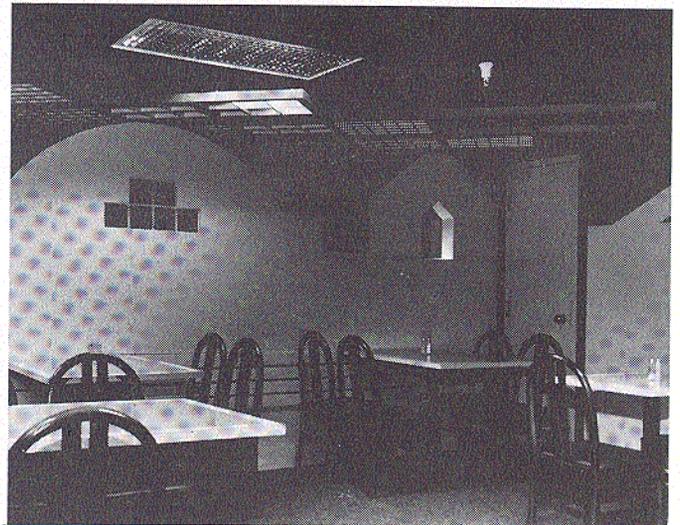
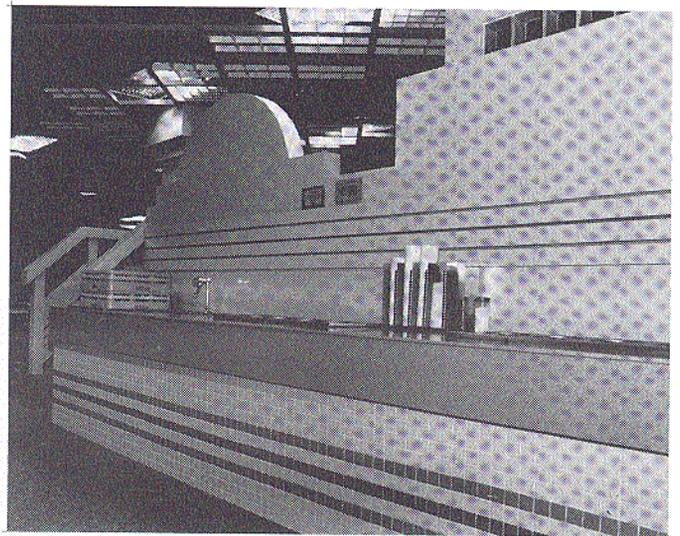
Merit Award



This project succeeds in meeting the assigned design criteria. Since this dining facility is located in an office complex, it competed with off-base restaurants for lunch time customers. The facility was extremely run down and had not been renovated for many years. The building was originally built as a train depot which inspired the name "Crossings Restaurant." Some of the original tracks can still be seen in this facility. The open floor plan is broken up by raised floor elevations and by partitions to achieve more intimacy. The partitions were designed to replicate the silhouette of a city scape. By adding special lighting the city has been brought to life. The contrast of the white, cityscape partitions against a dark blue background adds further drama to this pleasing environment. Drop-in ceiling panels were painted a dark color, and a metal grid in lighter colors was suspended from the ceiling at different levels to create multilevel planes that define the dining areas and traffic patterns of the restaurant.



The redesigned serving line improved the traffic flow, separating it from the dining area as well as reducing the noise from the kitchen. New furniture, which included tables, chairs and booths, was selected to complement the cityscape design theme. The furnishings were selected for their durability and ease of maintenance. The dark-colored floors hide soiling and the light walls create openness for customers who usually work in small office workstations. To further invite potential customers inside, windows and glazed doors were added to the corridor walls. The atmosphere in this restaurant has changed dramatically, encouraging customers to use it more frequently. It provides a refreshing dining space that gives an ambiance of outdoor city dining in this exciting interior design project.



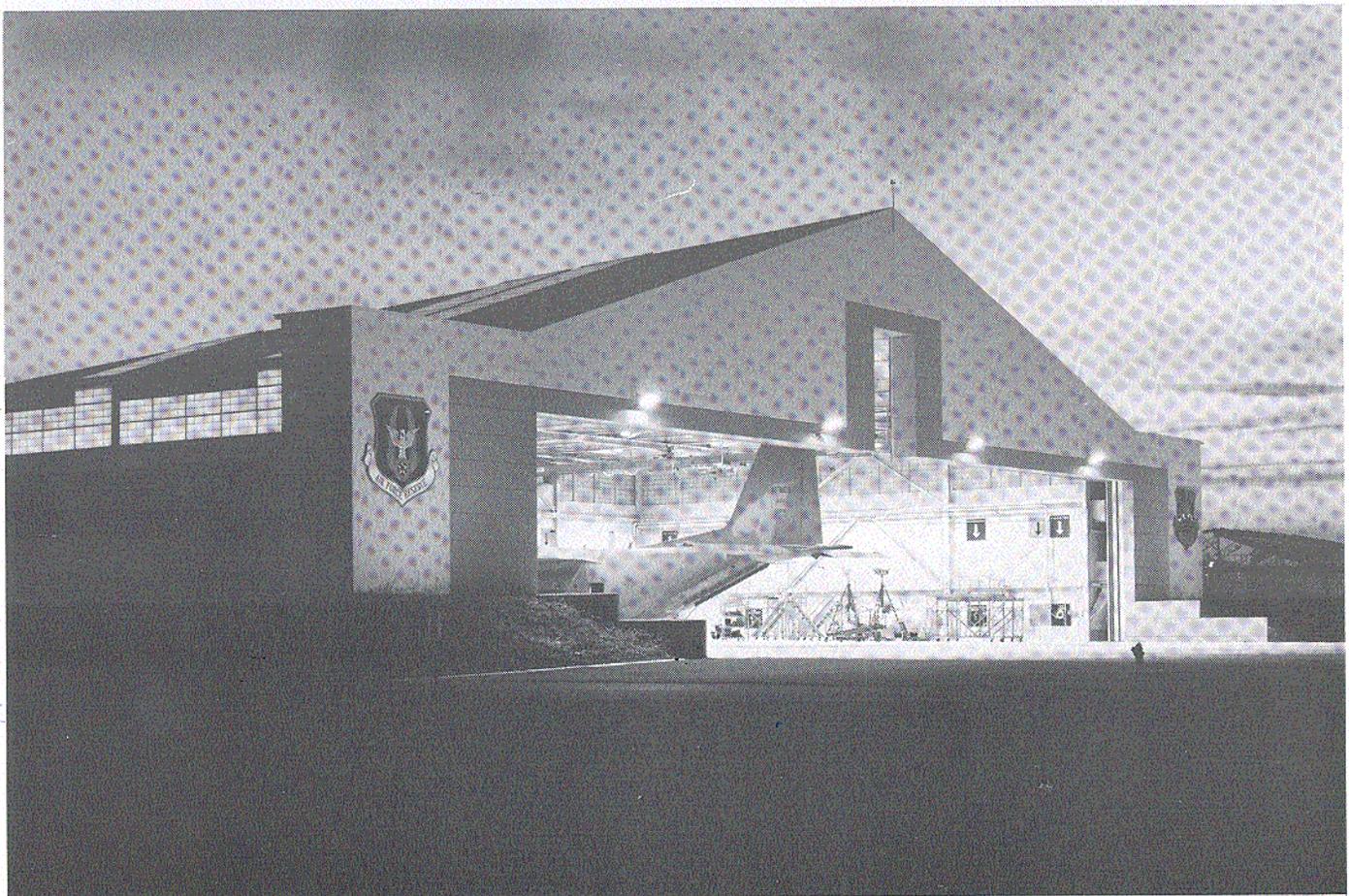
Completed Project

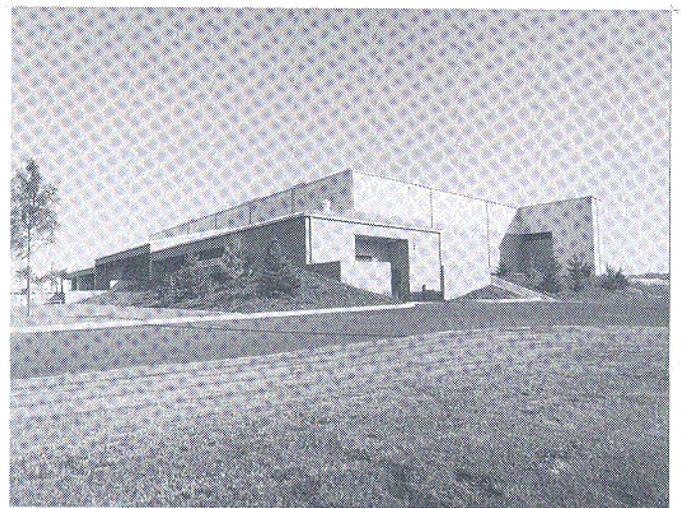
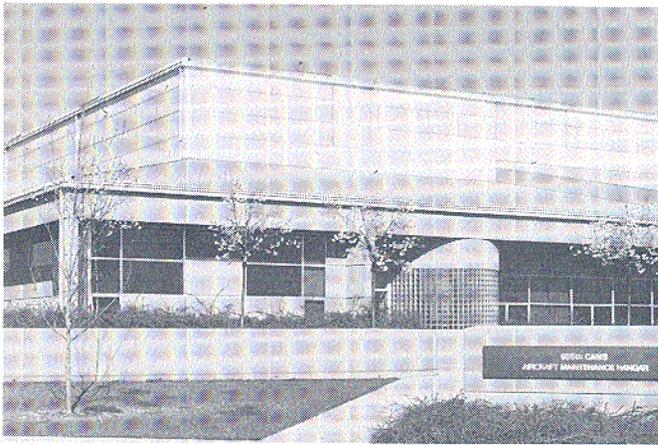
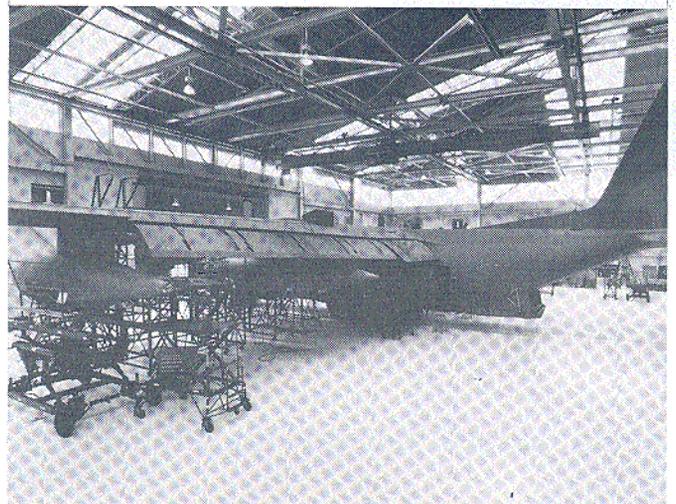
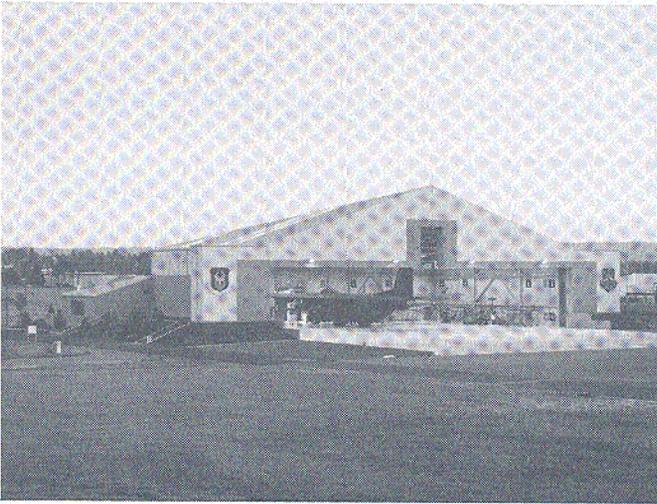
HC-130 Aircraft Maintenance Hangar

Portland International Airport, Oregon

Merit Award

Architect: Barrentine-Lee-Bates, AIA
Command: Air Force Reserves
Unit: 142nd Civil Engineering Squadron
Design Agent: US Property and Fiscal Office,
Oregon





The unique roof design of the hangar bay lowers the roof profile to the minimum height required at the hangar bay perimeter while allowing the peak of the roof to occur where required at the tail section of the aircraft. This profile minimizes the visual impact of this large scale facility on adjacent smaller scale buildings. The resulting building form represents an efficient, cost effective structure that minimizes the hangar bay volume while functionally and aesthetically meeting the spatial requirements of the HC-130 aircraft. Earth berms, careful selection of compatible finish materials, and the repetition of the hangar profile at the lower height administrative areas further contribute to successfully minimizing the visual impact of this building on the adjacent structures.

Natural light is introduced throughout the hangar through the use of translucent, insulated, energy-efficient panels on the roof and south, east and west walls of the hangar bay. The doors and gable roof profile on the north face of the building is similar in appearance to the other aircraft hangars on the ramp. The standing seam metal roof, insulated flat metal siding panels and simulated plaster panels have been carefully proportioned to be compatible with adjacent buildings in the Air Force Reserves complex.

Jurors' Comments:

- "...unique roof, interesting elevations..."*
- "Nicely integrated with the site, good scale at ground level..."*
- "..good working space..."*
- "good use of translucent panels..."*
- "Great interior."*

Completed Project

Squadron Operations Facility

McChord Air Force Base, Washington

Merit Award

Architect: Whiteley Jacobsen and Associates

Command: Air Mobility Command

Unit: 62nd Civil Engineering Squadron

Design Agent: Seattle District Corps of
Engineers



The organization of the plan responds to the independent flight-related activities and administrative requirements of each air squadron, as well as the interactive, centralized functions of a command, operations and training facility. In response to these complimentary program requirements, the architects divided the facility into three separate one-story volumes representing each squadron, connected by translucent enclosed walkways to a central command and training building. Each squadron has its own formal building entrance and is linked to the command and mission control area.

The design of separate entries lends equal importance to each squadron, supporting their separate identity. The organizing element of each squadron is the scheduling hub located around a central, light-filled atrium.

The cupola above this area provides natural daylight along with fresh air. A central cupola is the dominant feature above the main command center. Mechanically controlled louvers allow the users to control the natural light during slide presentations. Finished structural crossbeams accentuate the architectural volumes.

A series of landscaped interior courtyards are created along the central circulation spine separating the squadron buildings from the main control and training center. These interior courtyards provide informal break areas for each squadron. The formal awning structure, constructed of opaque glass and steel, provides visual interest and year-round protection from the natural elements. The central circulation spine links the Squadron Operations Facility to the adjacent Reserve Squadron Operations Facility and Flight Simulator Complex.

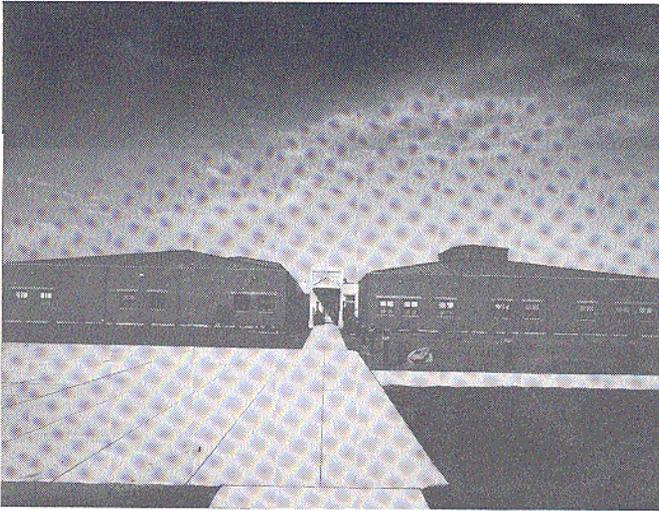
Jurors' Comments:

"...well executed and integrated landscape and site features..."

"...dealt successfully with program..."

"...the quality of design is consistent and even from plan conception to interior execution."

"...walkway, Interesting..."



Completed Project

Merit Award

Breezeway Entry Renovation and Pedestrian Mall

Wright-Patterson Air Force Base, Ohio

Architect: KZF Incorporated

Command: Air Force Materiel Command

Unit: 645th Civil Engineering Group

Design Agent: Louisville District Corps of
Engineers





This renovation project enlarged the breezeway entry between Buildings 262 and 266 while upgrading the appearance and improving disabled access to this heavily used entrance. The architectural style and landscaping improvements are compatible with the Materiel Command Headquarters buildings and the adjacent Logistical Systems Operations Center. Softening of the visual impact of these large buildings and creating a pleasant environment for pedestrian access from the adjacent parking lot were significant design challenges.

The architectural compatibility of materials was accomplished through the use of a simulated plaster system to replace the existing aluminum curtain walls. The existing lobby was enlarged to provide space for the security control desk out of the corridor circulation pattern and the interior finishes of Building 266 were extended into the breezeway as a unifying element. Access for the disabled is provided by a new ramp. The entry was also widened and equipped with an automatic door.

The landscaping solution invites pedestrians to the entrance by bring them along Sacramento Road and through a new pedestrian mall. The mall is composed of several brick-paved plazas bordered with landscaping and planters, and a series of steps to overcome the grade change. The details and rhythm of the banding in the interlocking pavers reflect the surrounding architectural features and integrates the entire area into a total complex. Landscaping was also utilized to soften the the edges of the imposing structures and screen unsightly utilities.

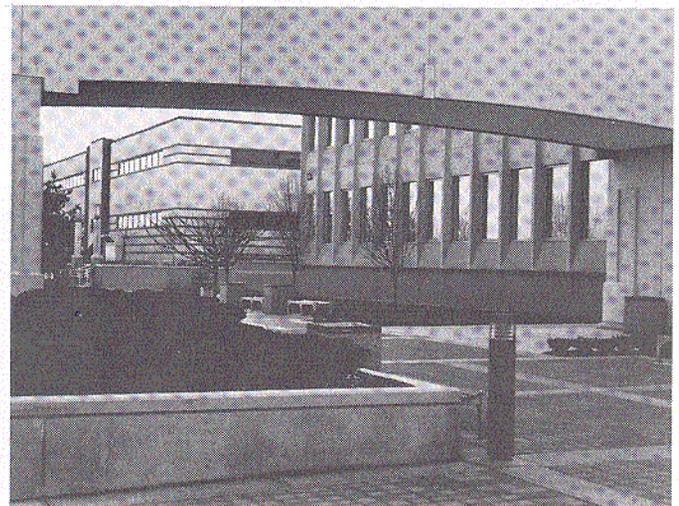
Jurors' Comments:

"...nice correlation to existing finishes."

"...elegant solution to a mundane program."

"...blending of two facades is carried off."

"...successful creation of a place; it's hard to imagine a better job."



Completed Project

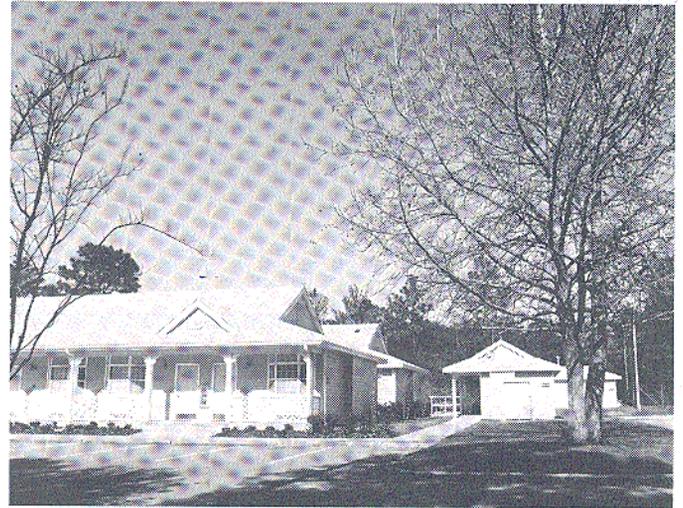
Renovation of Temporary Lodging Facilities

Eglin Air Force Base, Florida

Architect: 646th Civil Engineering Squadron
Command: Air Force Materiel Command

Merit Award





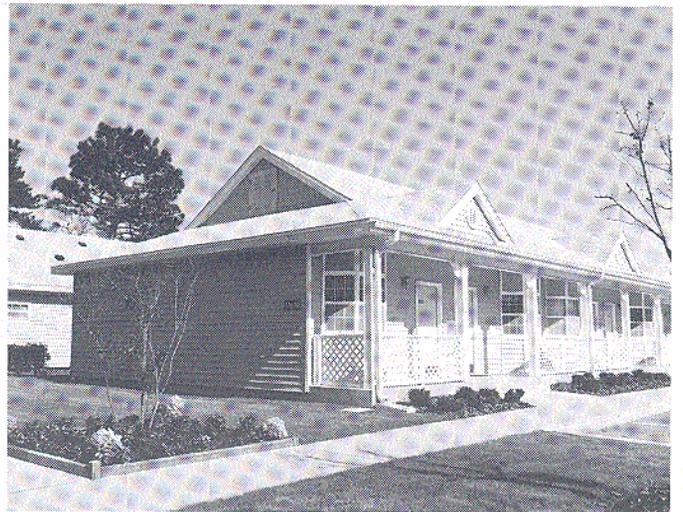
The existing circa 1970 pre-fabricated temporary lodging facilities required extensive renovation to extend their useful life as well as conform to current Air Force quality of life and accessibility standards. The primary goal was to provide comfortable and attractive accommodations for Air Force families in transition from one assignment to the next.

The architectural compatibility goals were to blend the units into the surrounding residential area and to perpetuate the feeling of "home". The exterior renovation was designed to soften the "boxy" appearance of the modular units by adding height with sloped roofs, and depth with porch additions. The addition of vinyl siding and residential style columns and railings also aided in achieving a soft, homey appearance.

The colors and materials for wallcoverings, carpets, cabinets and furnishings were selected on a whole house concept. Reflective materials and natural colors were selected and contrasted with wallhangings and accent elements such as bedspreads and curtains.

The 400 square foot units are very efficiently planned. A bay window was added to provide window seat storage for extra linens and personal effects. Additional kitchen and vanity cabinets were maximized to increase storage as well as to provide built-in shelving for the microwave and television. The addition of the porches has the effect of extending the living space by creating an environment for protected outside living.

Juror's Comments:



"...very pleasing and residential in appearance."

"...Remarkable!"

"...good job - tough "before"."

"...exemplary results."

Completed Project

Weapons System Support Facility

Robins Air Force Base, Georgia

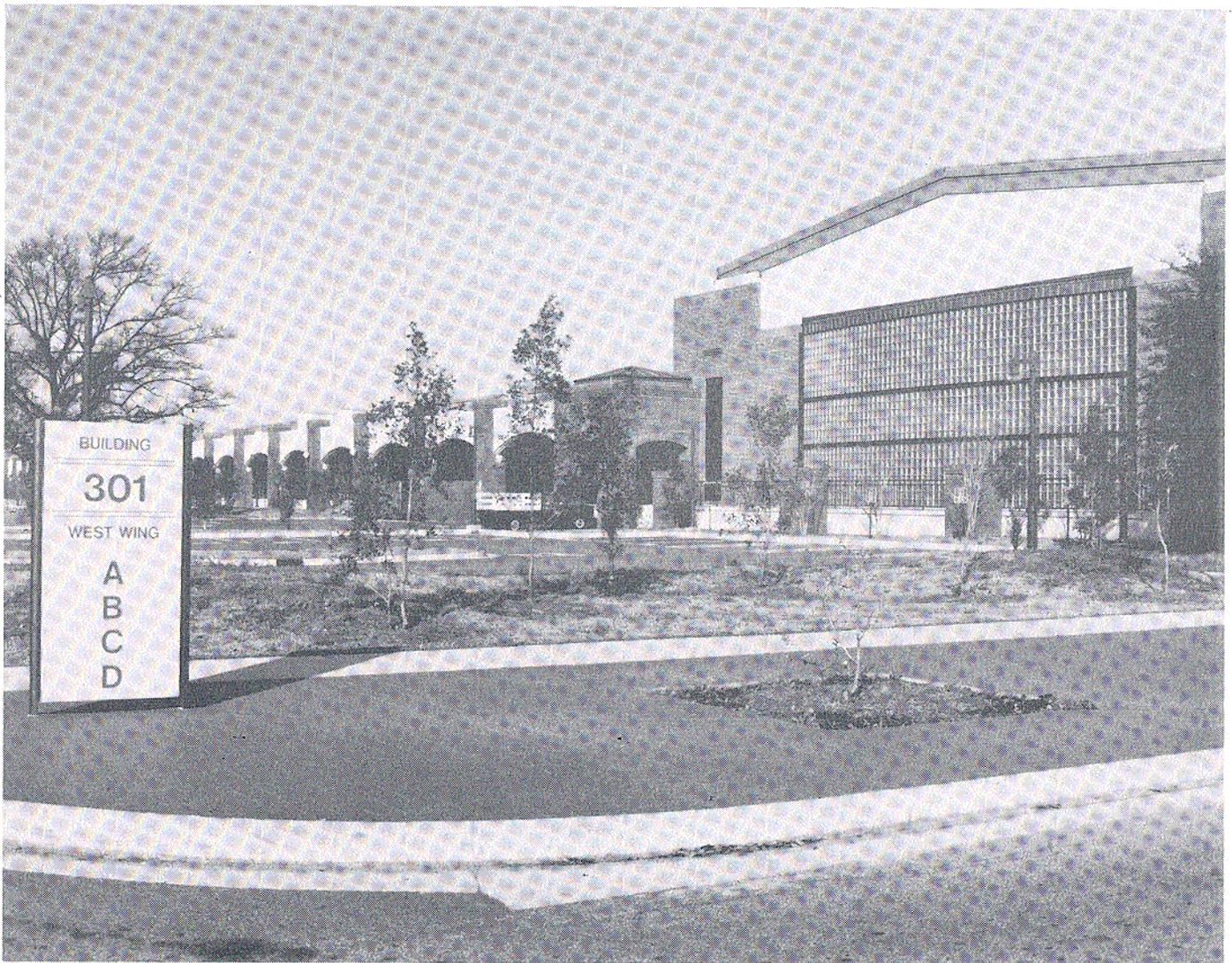
Merit Award

Architect: Allen and Hoshall

Command: Air Force Materiel Command

Unit: 653rd Civil Engineering Squadron

Design Agent: Savannah District Corps of Engineers



Collocation of key management elements into two adjacent buildings has improved the efficiency and effectiveness of all organizations though more frequent personal contact and involvement in an aesthetically pleasing work environment.

The design solution consisted of renovating the exterior of an existing facility and warehouse areas. A mezzanine, snack bar, and an outside plaza were also constructed, and the administrative areas were renovated. The resulting architectural design has greatly enhanced the exterior character of this facility. The colonnade has provided the foundation for architectural compatibility with other nearby facilities.

Renovated areas have increase the efficiency of operations within the facility. Nine related activities were effectively consolidated to efficiently interface with one another, and the protected plaza ties the facilities together. The designers have successfully created a workplace environment which is conducive to quality performance.

Jurors' Comments:

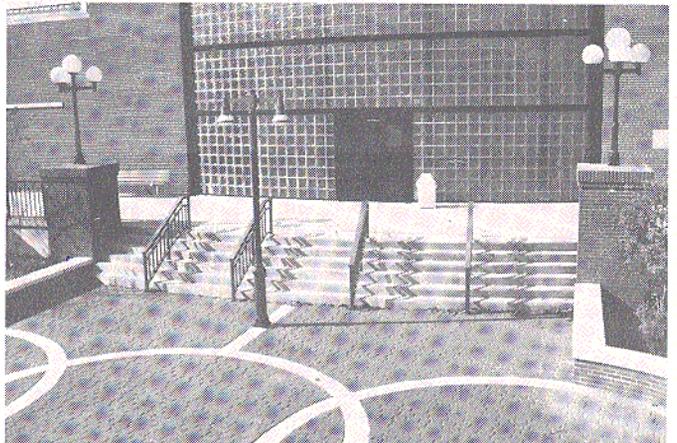
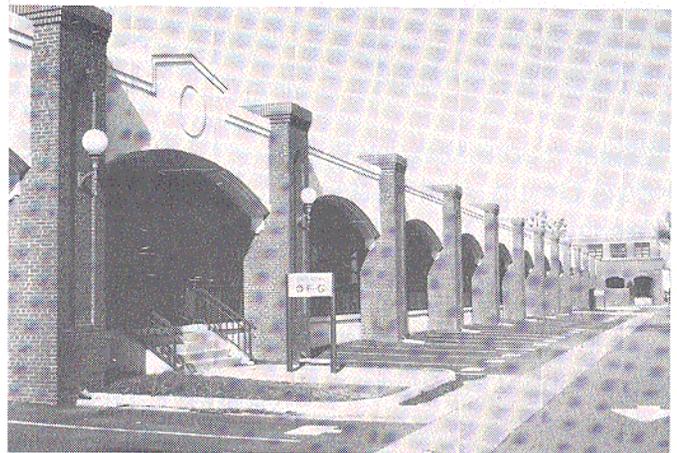
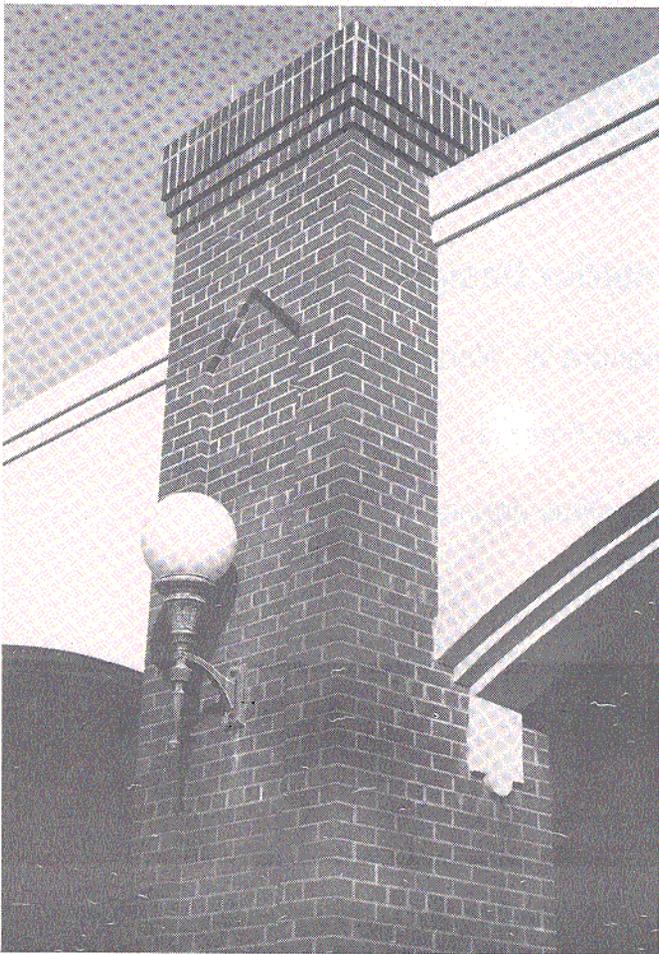
"...colonnade very attractive..."

"Excellent upgrade of facility..."

"...pleasant scale...archways..."

"Arcade is great..."

"Scale of arcade greatly enhances the appearance."



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This Annual Report was prepared by the
Design Group Directorate of the Air Force Center for
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