

United States Air Force

Design Awards Program

XV Annual Report



1990



From The Civil Engineer

My heartiest congratulations to this year's award winners! You have set the standards of quality design and established benchmarks by which design excellence will be measured in the 90's. This body of work proudly takes its place alongside previous years' award winners.

We often pay too much attention to the facility business and not enough to the business within facilities—making organizations work. The successes recognized here have done both. They succeed because those who conceived, planned, designed, and engineered and constructed these projects knew both the "facility" business and the "people" business.

In meeting your challenge, you have set the stage for Air Force men and women to successfully accomplish the demanding missions of the greatest aerospace power in the world. Your vision bodes well for us as we fulfill our Global Reach - Global Power charter.

On behalf of the Air Force Civil Engineering community throughout the world, I congratulate you for a job extremely well done.

JOSEPH A. AHEARN
Major General, USAF
The Civil Engineer

Front cover: Recreation Pavilion
Elmendorf Air Force Base, Alaska
Photograph: Brady

Back cover: Alert Crew Support Facility
Fairchild Air Force Base, Washington
Photograph: Turner Browne

Above:
Gary S. Flora, Associate Civil Engineer
Major General Joseph A. Ahearn, The Civil Engineer
Brigadier General James E. McCarthy, Deputy Civil Engineer

Background

This Annual Report marks the fifteenth year of the USAF Design Awards Program which was established to recognize and promote design excellence. The Air Force sets no limits on the number or type of projects that can be recognized each year. Although specific award categories are established, special awards for design excellence may be given to recognize outstanding achievements in a particular area of building technology such as Energy Conservation. There are four areas of design competition in the Air Force Design Awards Program. These project award categories are Completed Projects, Concept Projects, Urban Design and Planning, and Interior Design.

This year Completed and Concept Projects were reviewed by a distinguished jury composed of two members of the American Institute of Architects and two members of the Society of American Military Engineers. Urban Design and Planning Projects were judged by two certified professional planners, a registered architect, a registered professional engineer and a registered landscape architect. The Interior Design Jury included a member of the Council of Federal Interior Designers, an Associate Professor of Interior Design at Virginia Commonwealth University and a registered architect on the staff of Headquarters United States Air Force.

With the selection of this year's award-winning projects, the Air Force has honored over eighty completed projects, over sixty concept projects, eight projects in the Urban Design and Planning category, and twelve interior design projects. These totals include nine projects which have received awards in both the Concept Project and Completed Project categories.

The Air Force Design Awards Program is a viable and important program which has become "institutionalized" within the Air Force, is widely recognized throughout the federal government and is supported by the enthusiastic participation of notable professionals in the private sector.

XV USAF Design Awards Program Award Winners

Completed Project Honor Awards

Alert Crew Support Facility
Fairchild Air Force Base, Washington

Aircraft Shelters
RAF Alconbury, England

Completed Project Merit Awards

Recreation Pavilion
Elmendorf Air Force Base, Alaska

Logistical Systems Operation Center
Wright-Patterson Air Force Base, Ohio

Concept Project Merit Awards

Commissary
United States Air Force Academy,
Colorado

Visitors Information Center
March Air Force Base, California

Urban Design and Planning Merit Awards

Comprehensive Plan
Crotone Air Base, Italy

Housing Community Plan
Charleston Air Force Base, South Carolina

Area Development Plan, HQ CSD
Gunter Air Force Base, Alabama

Interior Design Honor Awards

Dining Facility
Little Rock Air Force Base, Arkansas

SAC Theater and Lobby
Offutt Air Force Base, Nebraska

Interior Design Merit Awards

Dining Facility
Whiteman Air Force Base, Missouri

Officers Club Casual Bar Lounge
Seymour Johnson Air Force Base,
North Carolina

Completed Project

Honor Award

Alert Crew Support Facility
Fairchild Air Force Base,
Washington
**Architect: Whiteley Jacobsen &
Assoc., P.S.**

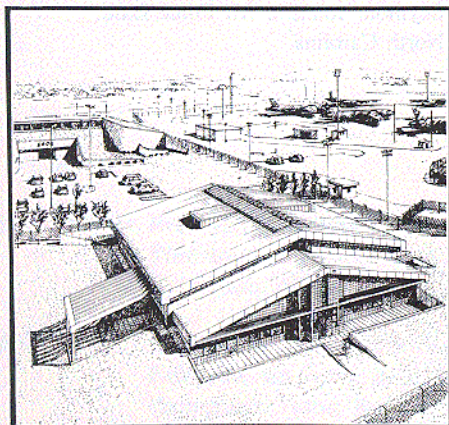
Design Agent: Seattle District, Corps of
Engineers
Command: Strategic Air Command
Base: 92nd Civil Engineering Squadron



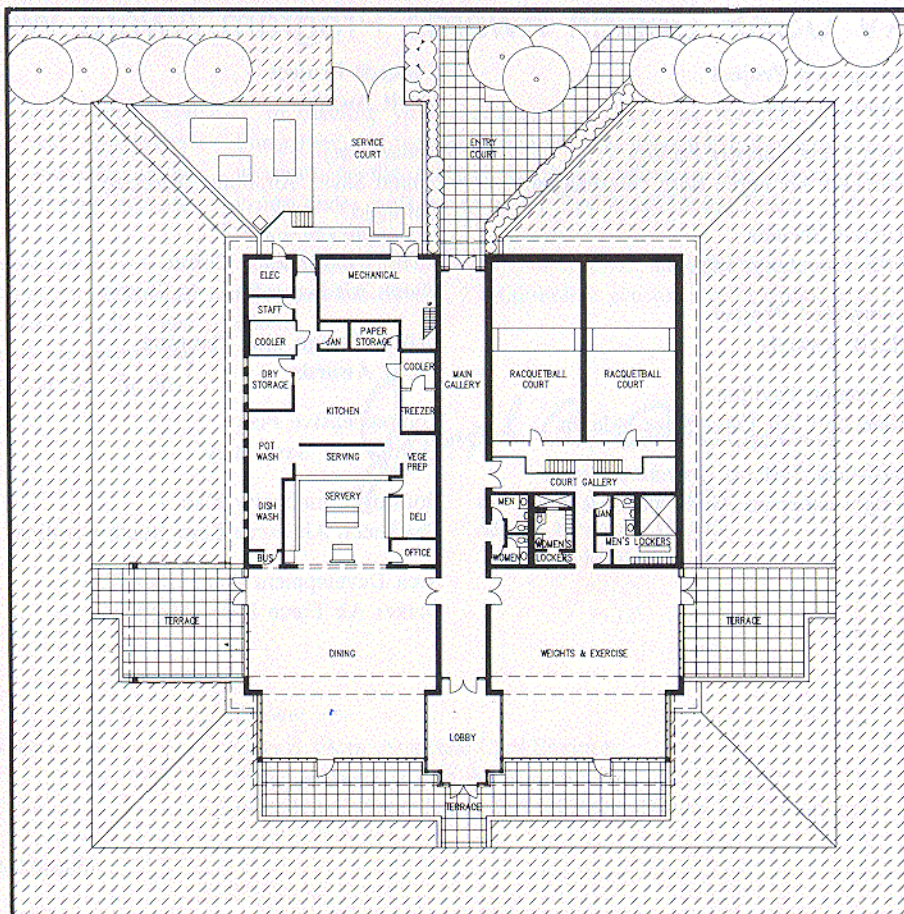
Turner Browne

Elevation

The elevations of this building have a crisp, graphic quality. It is compatible with existing base facilities in responding to noise and local climatic conditions with earth berms that will shelter the structure. The building massing responds appropriately to the site and adjacent buildings, while the use of glass and insulated translucent panels enhance the sense of space within. Full height concrete panels with reveals give visual interest and create a sense of scale. The architects successfully used a central, skylighted passage to organize the separate, but balanced dining and comprehensive recreation areas.



Aerial Perspective

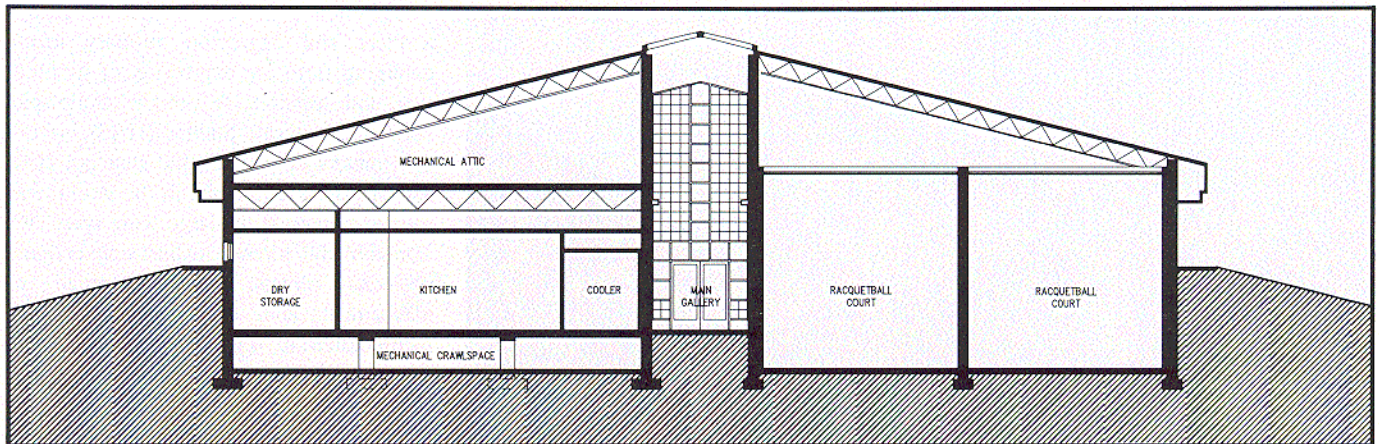


First Floor Plan

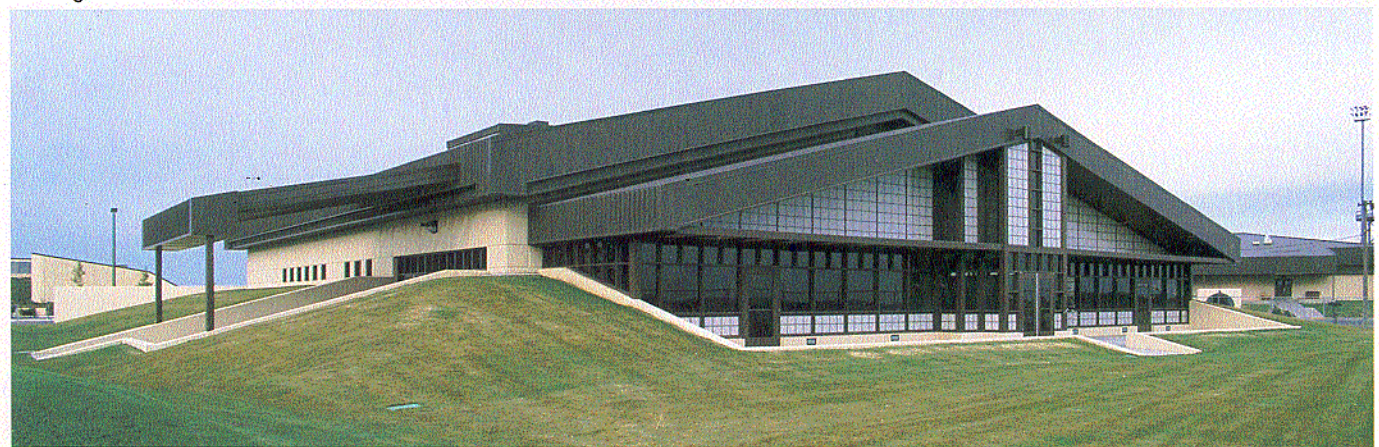


Turner Browne

Dining Room



Building Section



Turner Browne

Elevation

Completed Project

Honor Award

Aircraft Shelters

RAF Alconbury, England

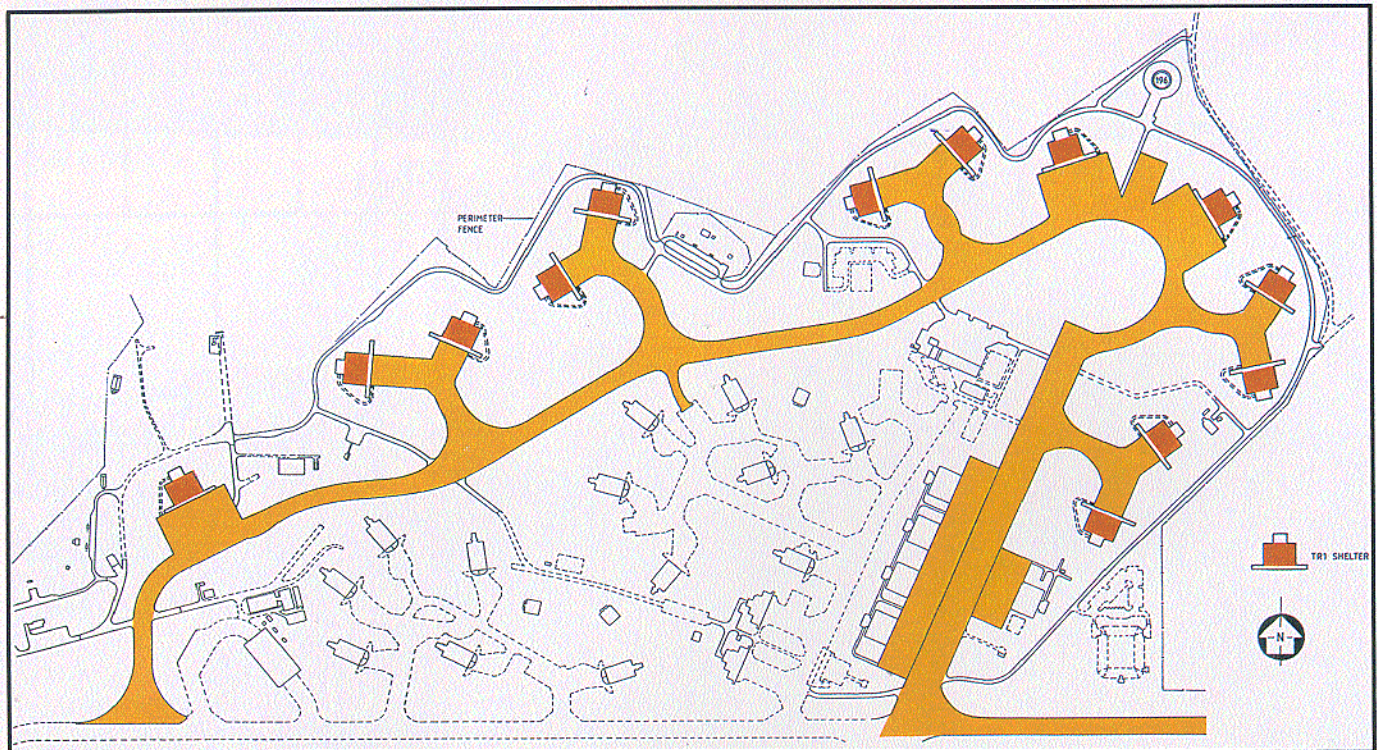
Architect: Property Services Agency
& Turner Wright & Partners

AFRCE: United States Air Forces in
Europe

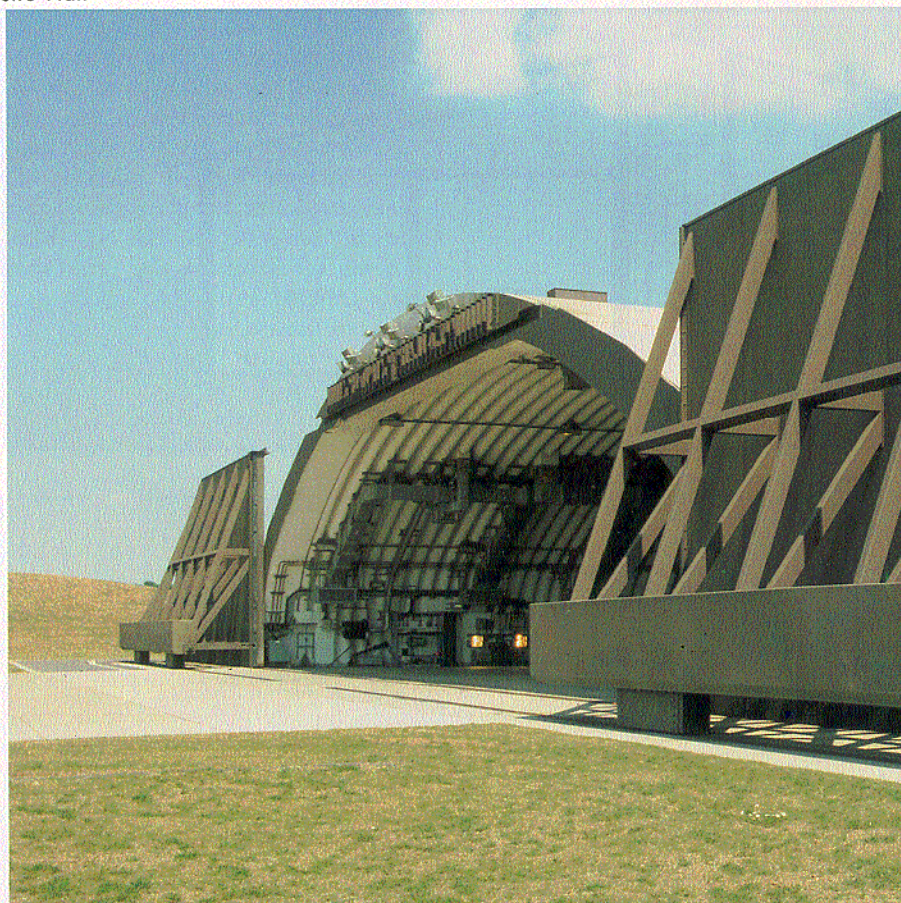
Design Agent: Property Services
Agency

Command: United States Air Forces in
Europe

Base: 10th Civil Engineering Squadron



Site Plan



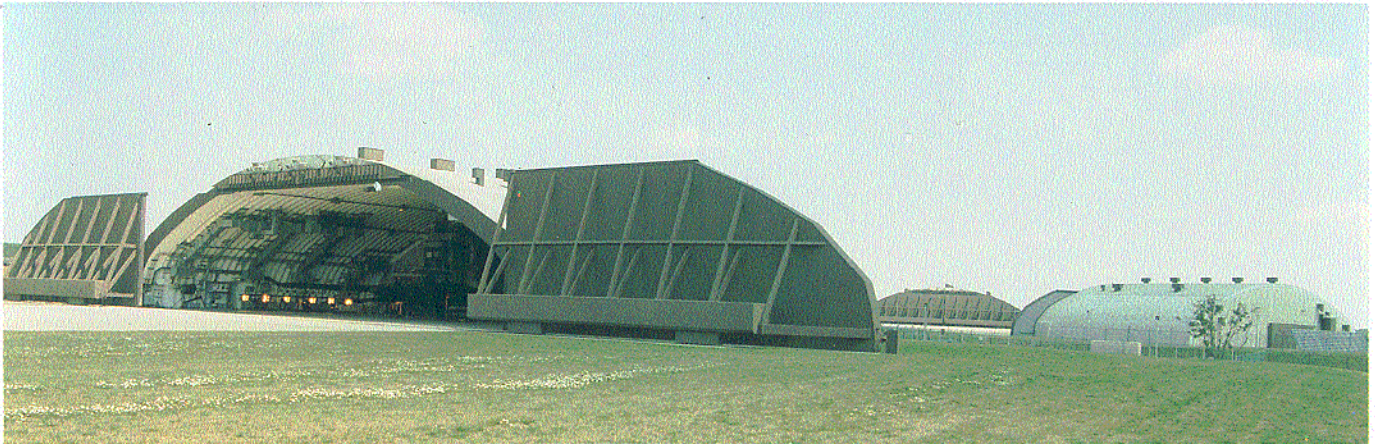
View of Doors

This new generation shelter design has a clear and aggressive military image emerging from the expression of its function and mission. A unique single-span Hardened Aircraft Shelter (HAS), seventeen meters larger than the standard HAS and probably the largest in the world, was needed to protect the large wing span TR1 "Dragonlady" aircraft against conventional weapons threats. A full range of mechanical and electrical services is incorporated to allow the aircraft to be serviced under normal and "buttoned up" operating modes. The final profile of the reinforced concrete shelter is derived from two curves that minimized adverse bending forces and result in a slender economical structure. The concrete arch was formed using a corrugated steel soffit liner giving suitable stiffness to weight ratio to achieve the single span while horizontal thrust at the base is resisted by a series of underground tie beams. Longitudinal construction joints seen as a potential source of water ingress were avoided by insisting on a single arch concrete pour. Massive steel doors, weighing 160 tons each, slide on a cast floor track. Hydraulically powered, they're engineered to open or close smoothly in ninety seconds.

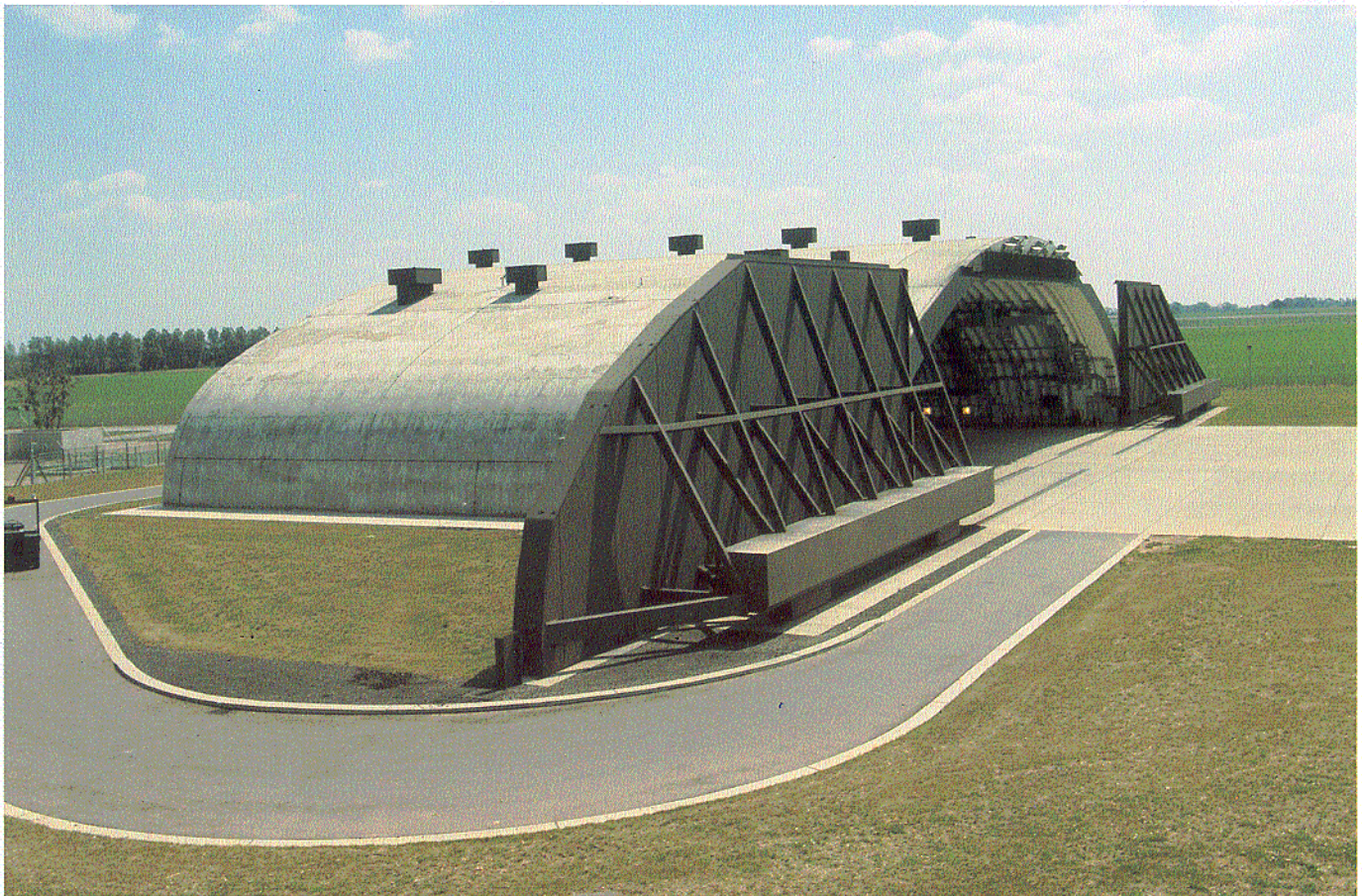
Property Services Agency



Property Services Agency



Property Services Agency



Property Services Agency

Completed Project

Merit Award

This pristine overall form, evidencing man's aesthetic presence in an overwhelmingly beautiful and powerful setting, with its sensitive use of natural materials, is an appropriate response to and appreciation of that environment.

Recreation Pavilion

Elmendorf Air Force Base, Alaska

Architect: Cash Barner Usher, Architects

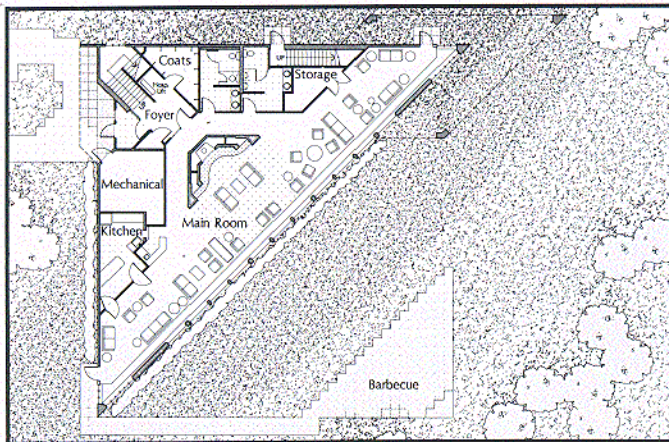
This triangular building, constructed with conventional wood framing provides the spaces needed without exceeding the budget. Stained wood shingles and complementary colored asphalt roofing shingles give a durable, low maintenance, rustic look.

AFRCE: HQ 11AF/DEEE

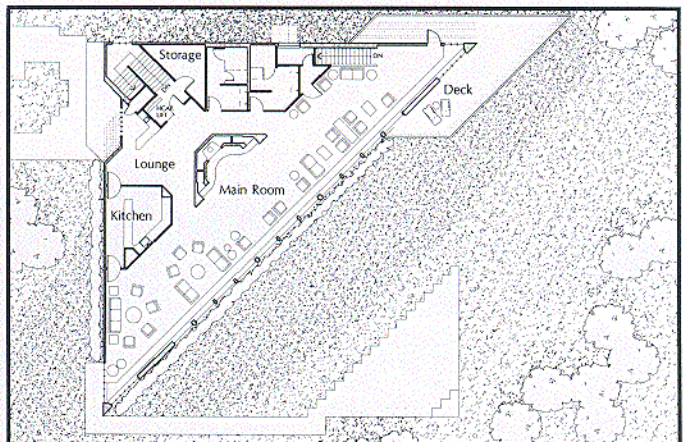
Command: Pacific Air Forces

Base: 21st Civil Engineering Squadron

From the main room, a panoramic view of the mountains and the lake greets the user as the building is sited close to a bluff overlooking the lake. The lodge-like appeal is enhanced by a stone fireplace, carpeting, quarry tile floors and natural oak doors.



First Floor Plan



Second Floor Plan



Northeast Elevation



Main Room Facing West

Brady



South Elevation

Brady

Completed Project

Merit Award

A complex site, specific building profile criteria, sensitive functional activities and adjacency to structures of demanding architectural character, were part of the influential requirements which, when treated with clarity and sensitivity, became strong form-giving determinants in this highly visible and very successful operations center facility. The adjacent buildings represent different eras and therefore different styles of architectural fenestration—from a simplified art deco rendered in concrete to a "modern" repetitive precast panel window wall. The new solution brings the incompatible existing structures into a unified three-building complex with exterior scale and treatment relative to each. Even the overhead "link" contains detailing and a "sense" of the existing buildings. In summary, this project adds measurably to the complex as well as to the installation as a whole with its sensitivity, use of color, refined scale, overall profile, detailing and neighborliness.

Logistical Systems Operation Center
Wright-Patterson Air Force Base, Ohio
Architect: KZF Incorporated

AFRCE: Eastern Region
Design Agent: Louisville District, Corps of Engineers
Base: 2750th Civil Engineering Squadron



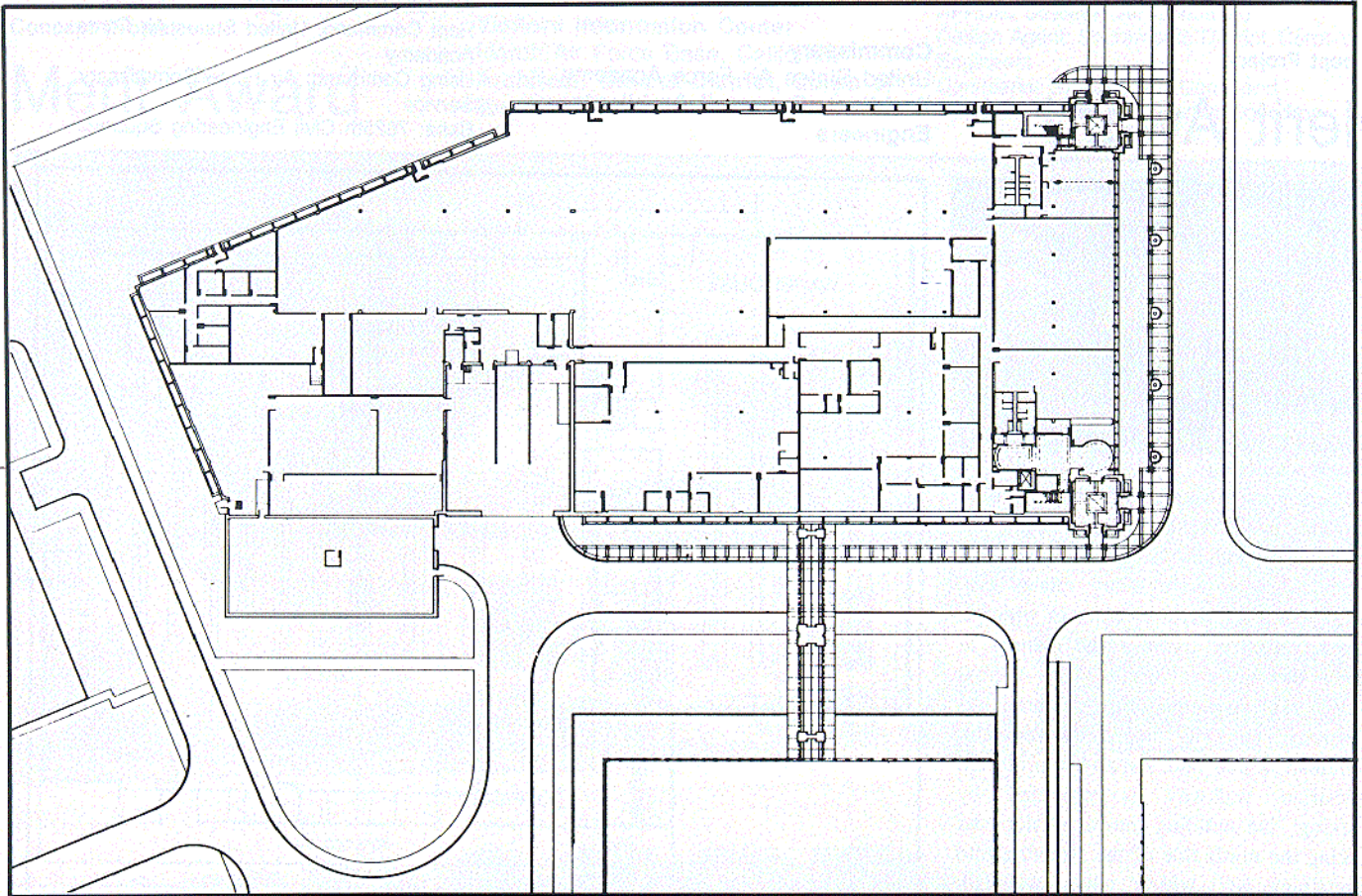
Interior Suite

David Witt



Elevation

David Witt



First Floor Plan



Interior Lobby

David Witt



Detail

David Witt

Concept Project

Merit Award

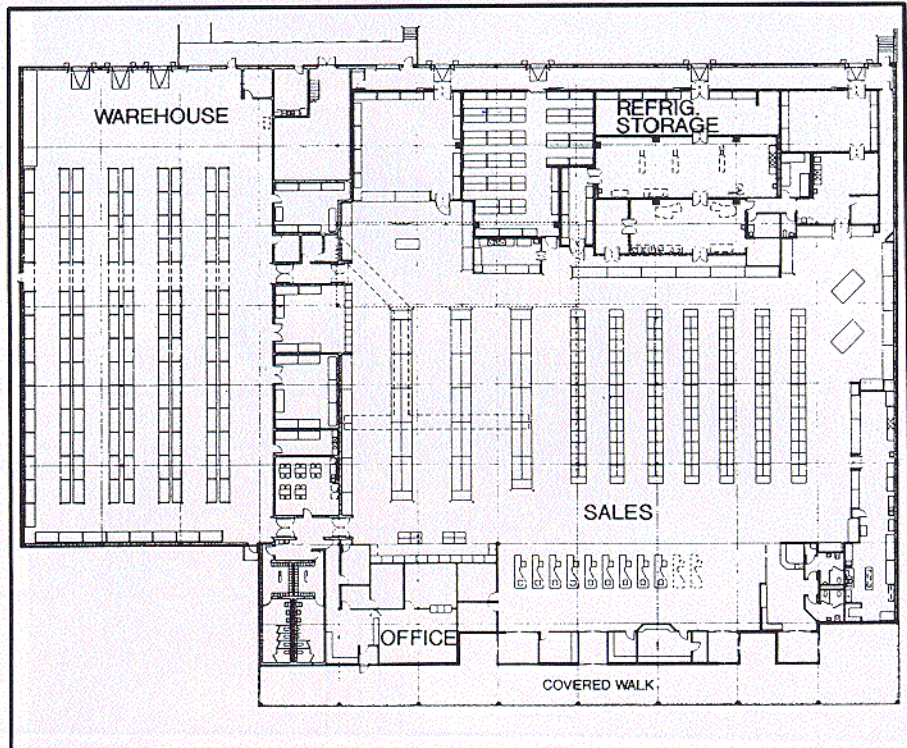


Adjacent Building

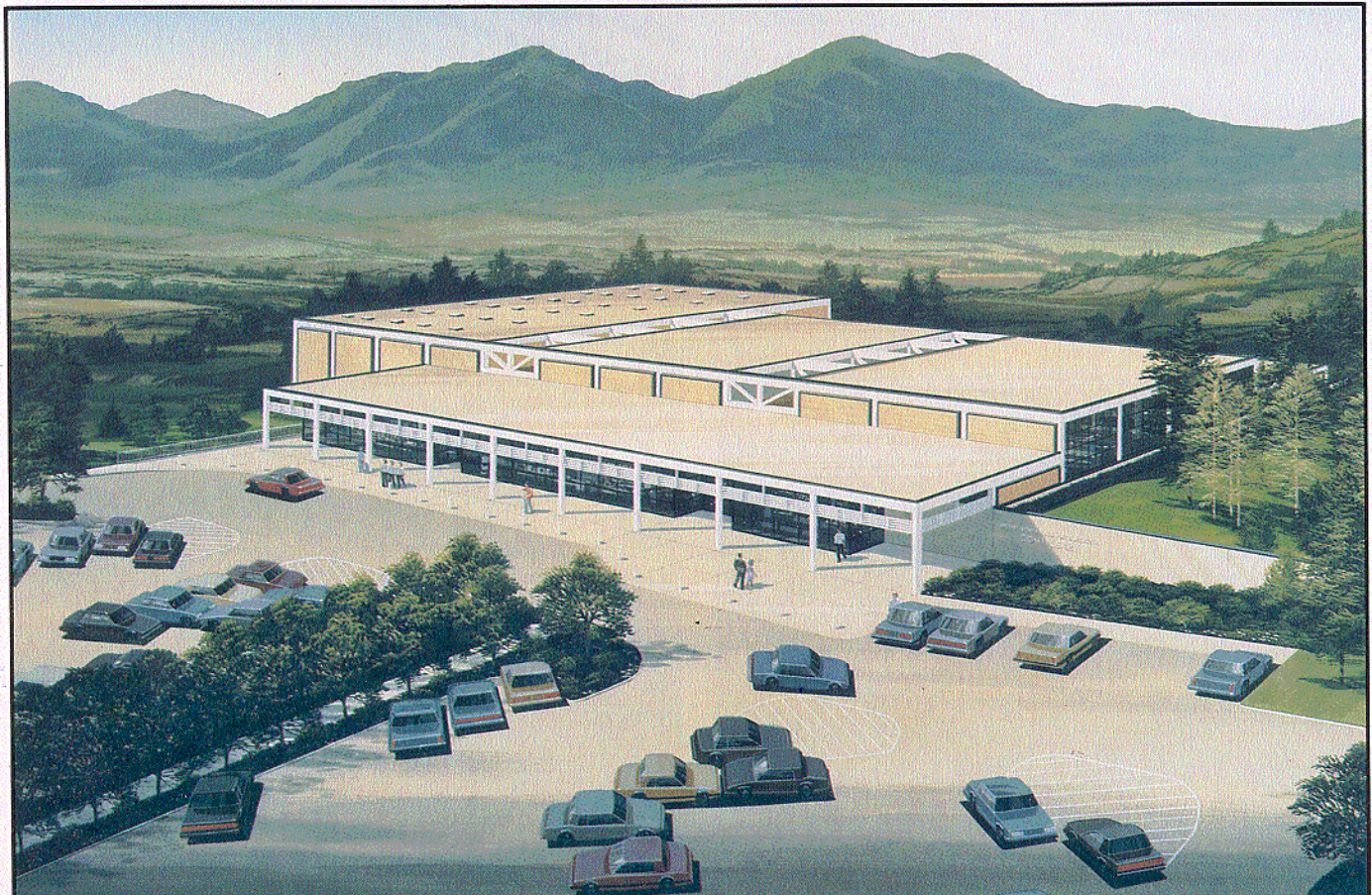
Planned and also architecturally detailed according to the Academy master plan and the International Style grid system, the newly proposed commissary relates perfectly to the community center in which it is sited. Also of merit is the manner in which the design "installs" the 68,000 square foot building into a three dimensional, naturally sloped environment. A human scaled and somewhat protected pedestrian walkway is provided by "tucking" the building into a hillside and making the north side of the structure into a retaining wall which, when extended, hides the service areas of the facility.

Commissary
United States Air Force Academy
Architect: Cromwell Architects
Engineers

AFRCE: Central Region
Host Command: United States Air Force Academy
Using Command: Air Force Commissary Service
Base: 7625th Civil Engineering Squadron



Floor Plan



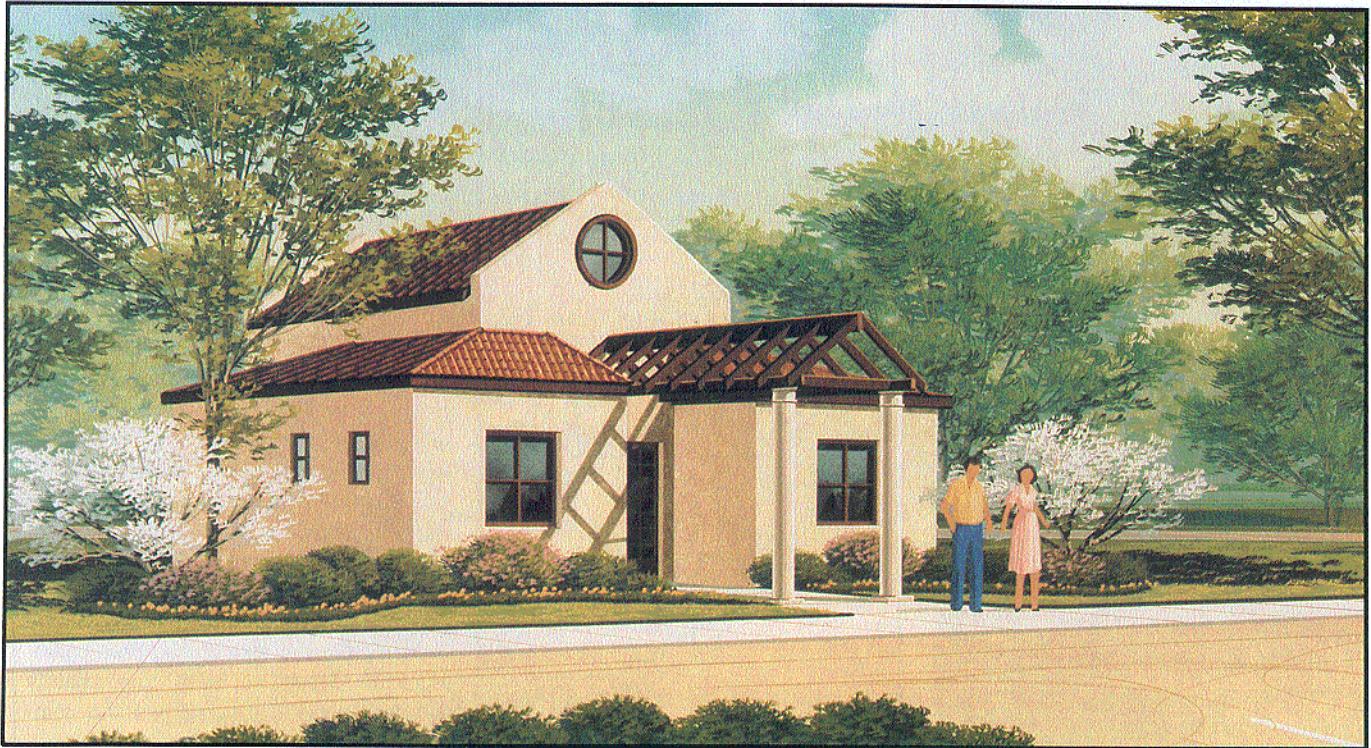
Rendering at Entrance

Concept Project

Merit Award

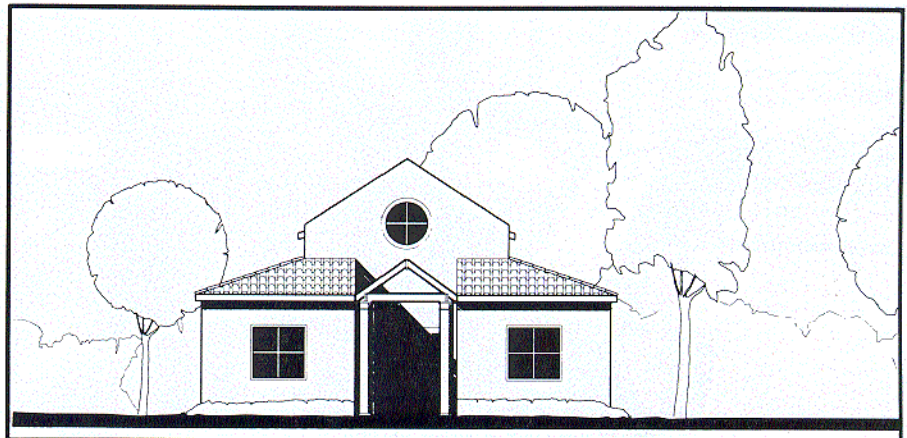
Visitors Information Center
March Air Force Base, California
Architect: Omaha District, Corps of Engineers

AFRCE: Strategic Air Command
Design Agent: Sacramento District, Corps of Engineers
Command: Strategic Air Command
Base: 22nd Civil Engineering Squadron

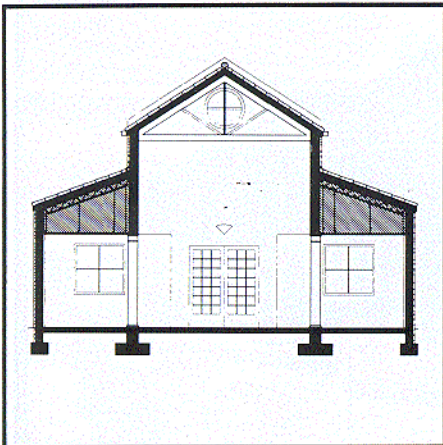


Rendering at Entrance

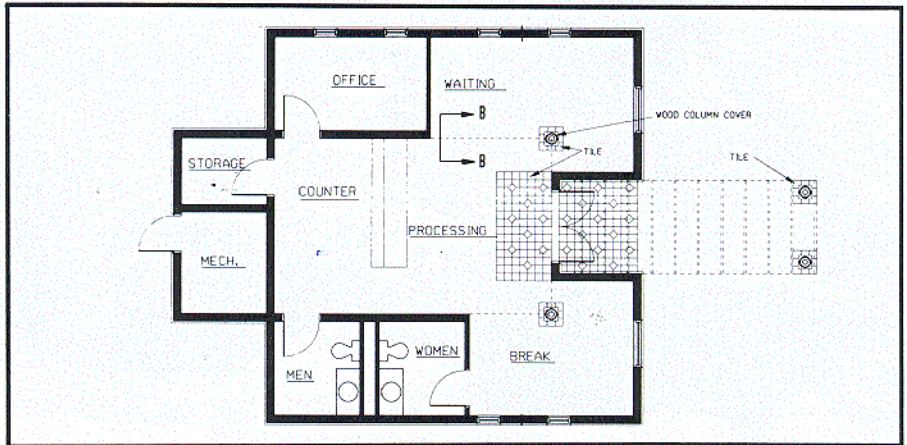
This visitor center, proposed for a March Air Force Base entrance gate, previews the Spanish Mission architectural style that is the installation's preferred theme, and is therefore congruent with numerous other structures on the base. Simplicity is essential to the mission vernacular as this solution admirably demonstrates with its central gabled hall wrapped symmetrically with two lower areas covered with clay tile hip roofs. These hipped areas help to form the entrance, which is further defined by a heavy timber, "trellis-like" canopy guiding visitors into the building.



Elevation



Section

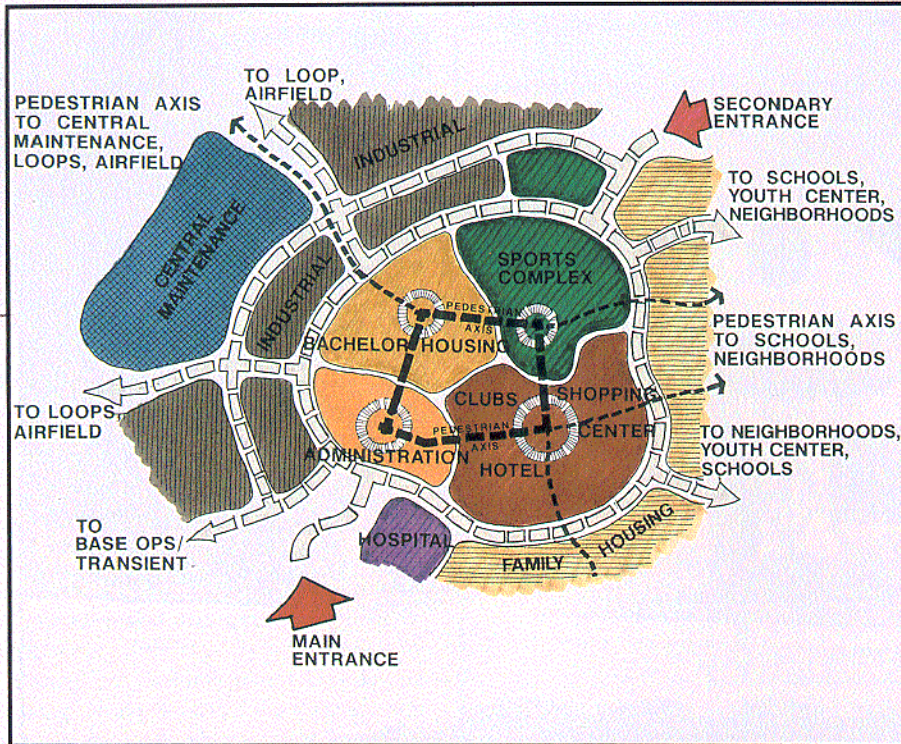


Floor Plan

Merit Award

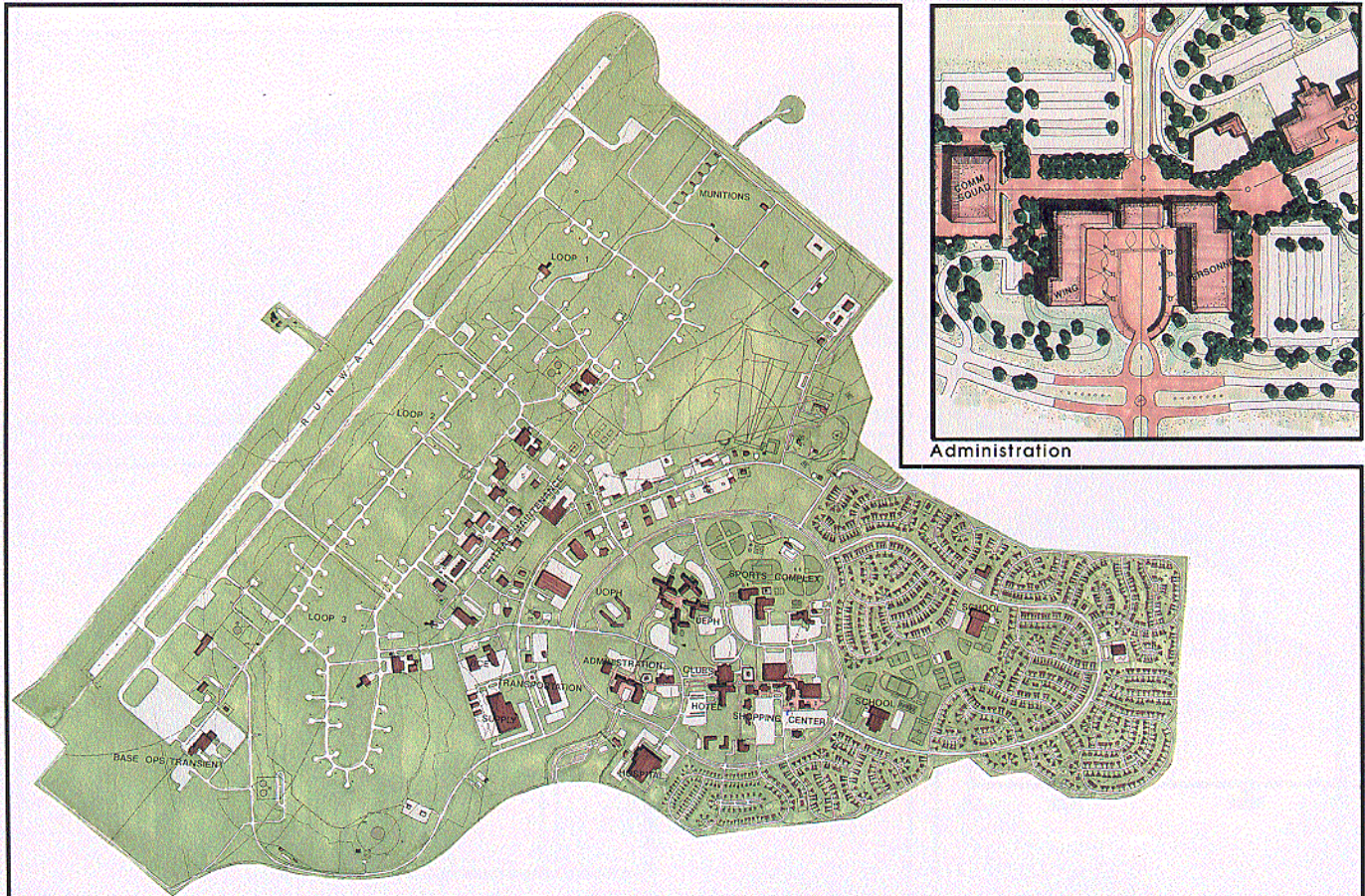
Comprehensive Plan
 Crotone Air Base, Italy
 Planner: Black & Veatch

Command: United States Air Forces in Europe

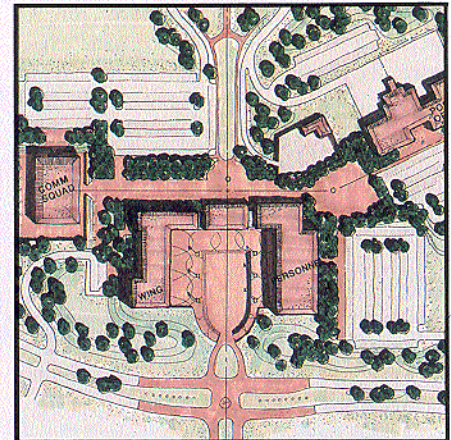


Conceptual Diagram—Community Center

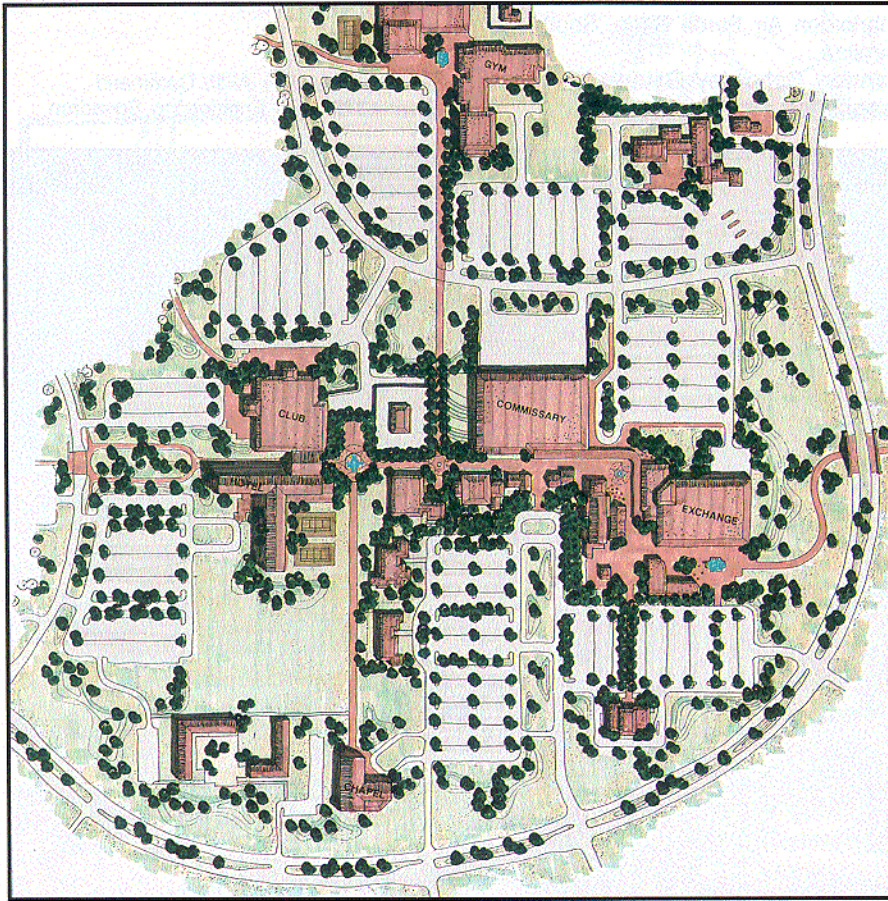
This plan's unique combination of vehicular circulation loops which are both organic in context and topographically responsive, coupled with strong visual/pedestrian axes within the central core, results in a solution with exciting possibilities. An overriding concern for human-scale pedestrian experiences is evidenced in sub-area development plans and brings to mind several characteristics of the local cultural setting. Future expansion needs, sensitivity to the environment, and survivability from both ground and air hostilities were keenly addressed. Serious concern for separating major vehicular traffic and pedestrian movement within a circulation hierarchy was well solved with a single boulevard loop and two separate collector systems serving both the mission/industrial area subgroups and family housing. Strong connecting paths and walks serve pedestrian and bicycling needs from family housing to the flight line via the community center and dormitory areas.



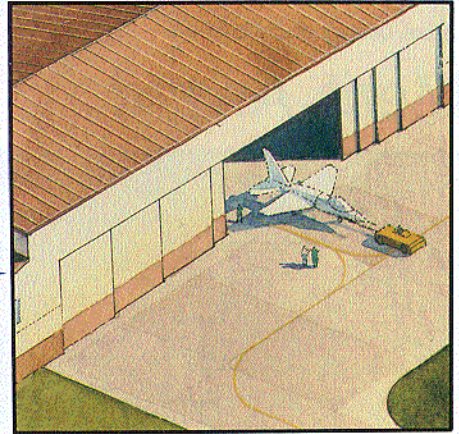
Master Plan



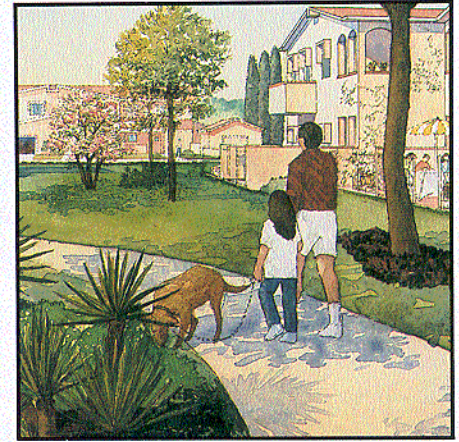
Administration



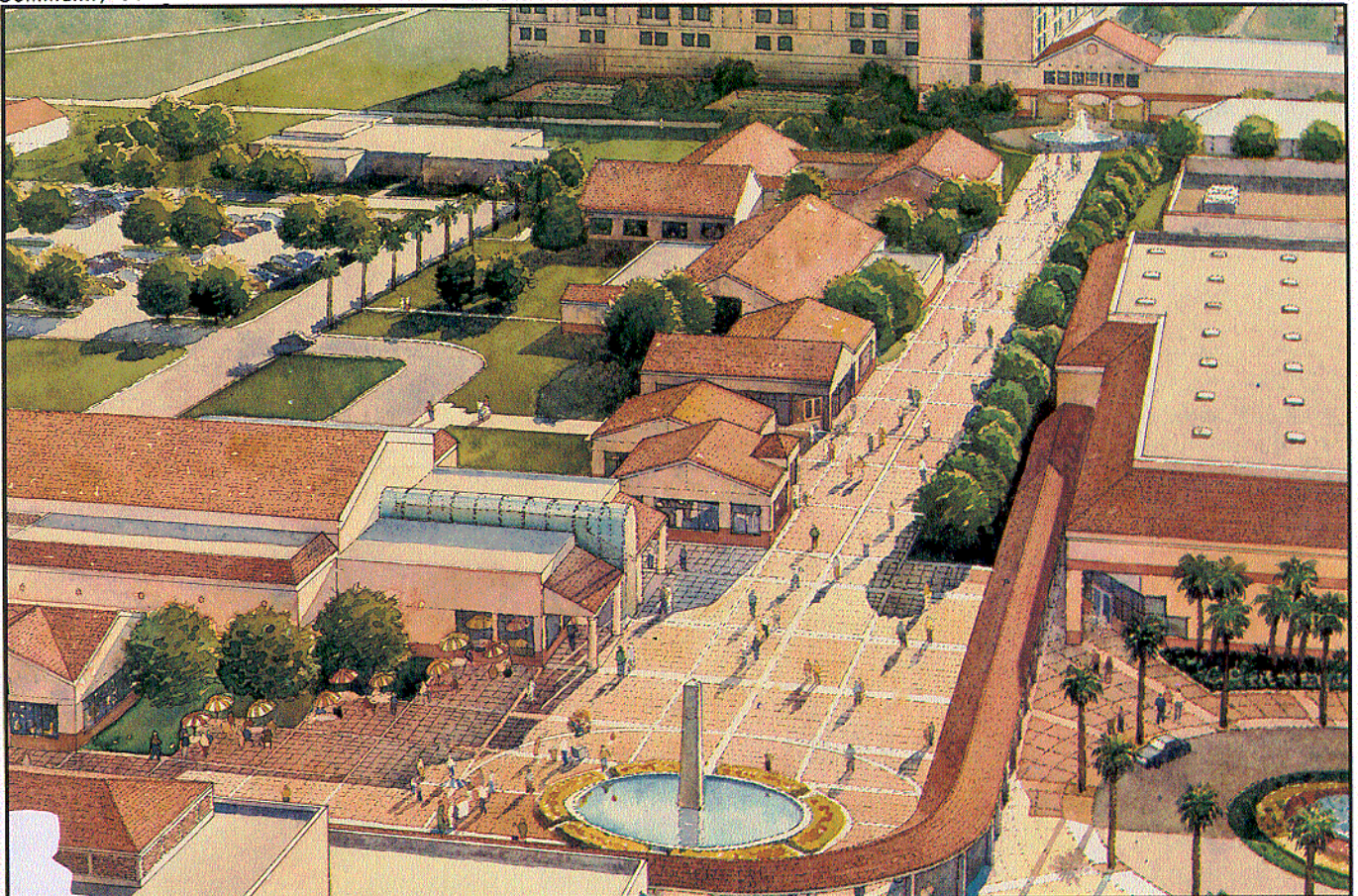
Community Center Subarea



Operations



Housing

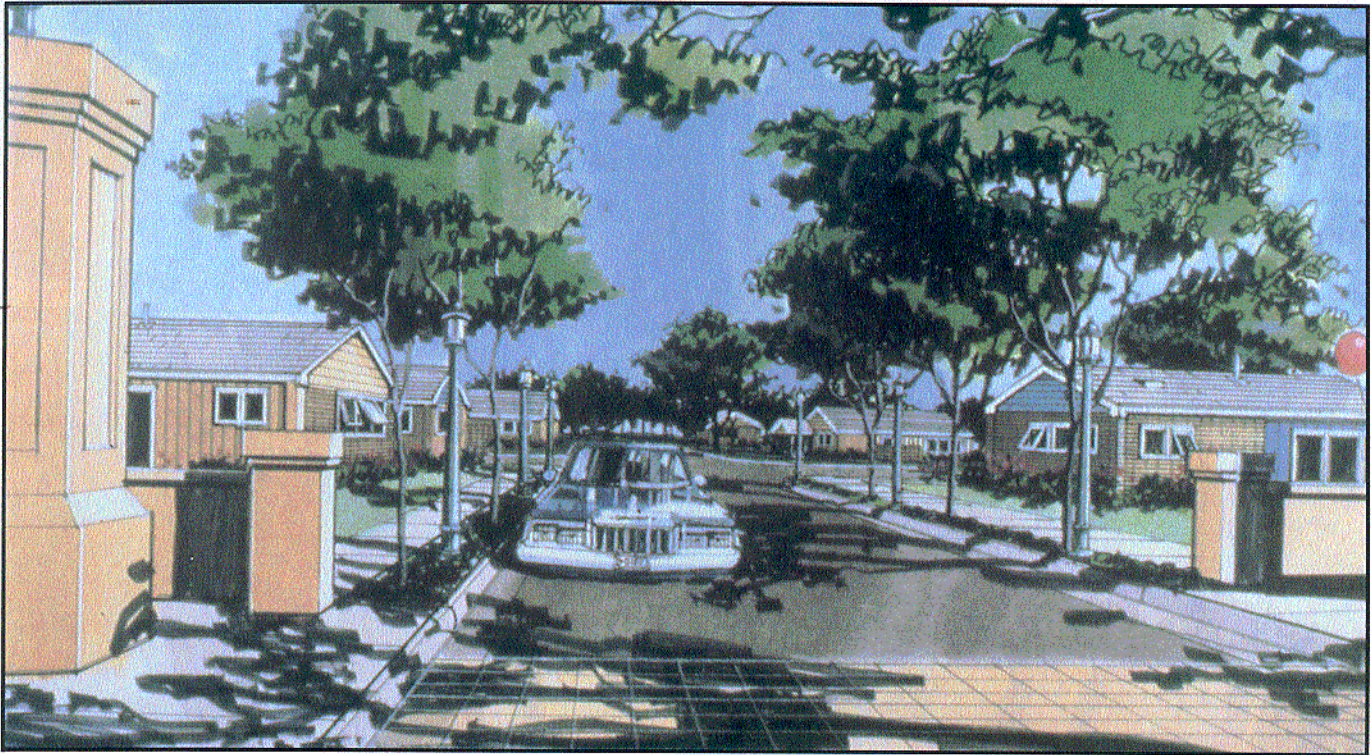


Rendering-Community Center Mall

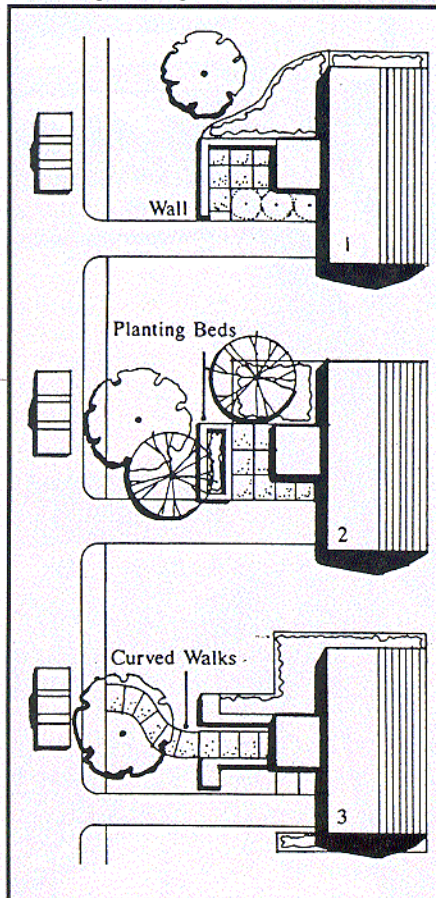
Merit Award

Housing Community Plan
 Charleston Air Force Base, South
 Carolina
Planner: Schooley Caldwell
Associates

Command: Military Airlift Command
 Base: 437th Civil Engineering Squadron

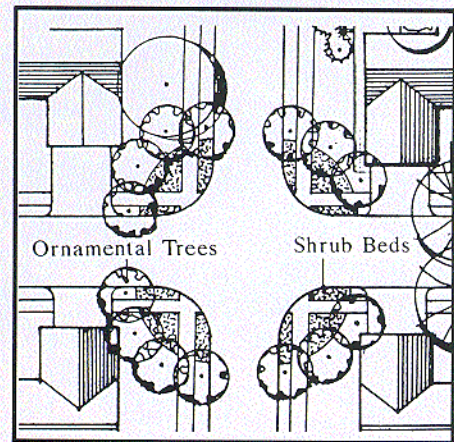


Rendering of Neighborhood Entrance

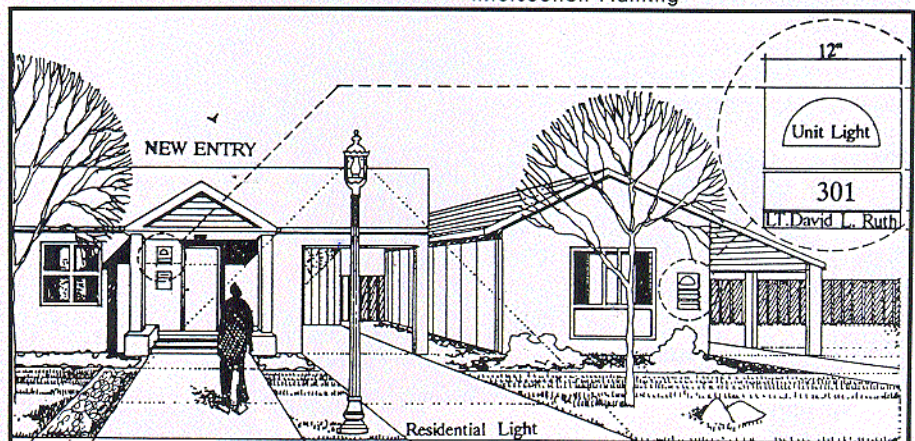


New Entrance Plans

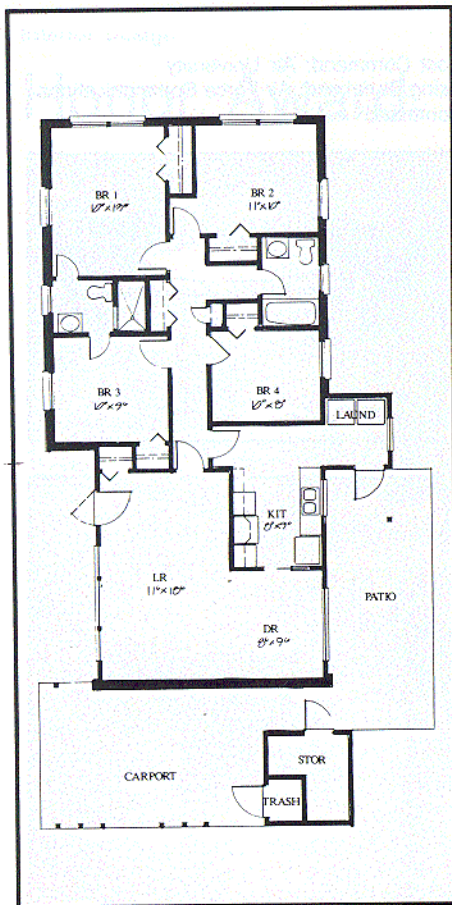
This plan provides a strong sense of neighborhood identity. Enhanced landscape features and visually coordinated site furnishings define community areas and boundaries. Individual housing units will be improved. Their mechanical and electrical systems will be upgraded. Family rooms and master bedrooms will be added and expanded, bringing housing units up to their allowable sizes. Sensitive provided, these amenities will measurably improve the quality of the lifestyle and the feelings of pride—the "pride of place"—of the men and women of Charleston.



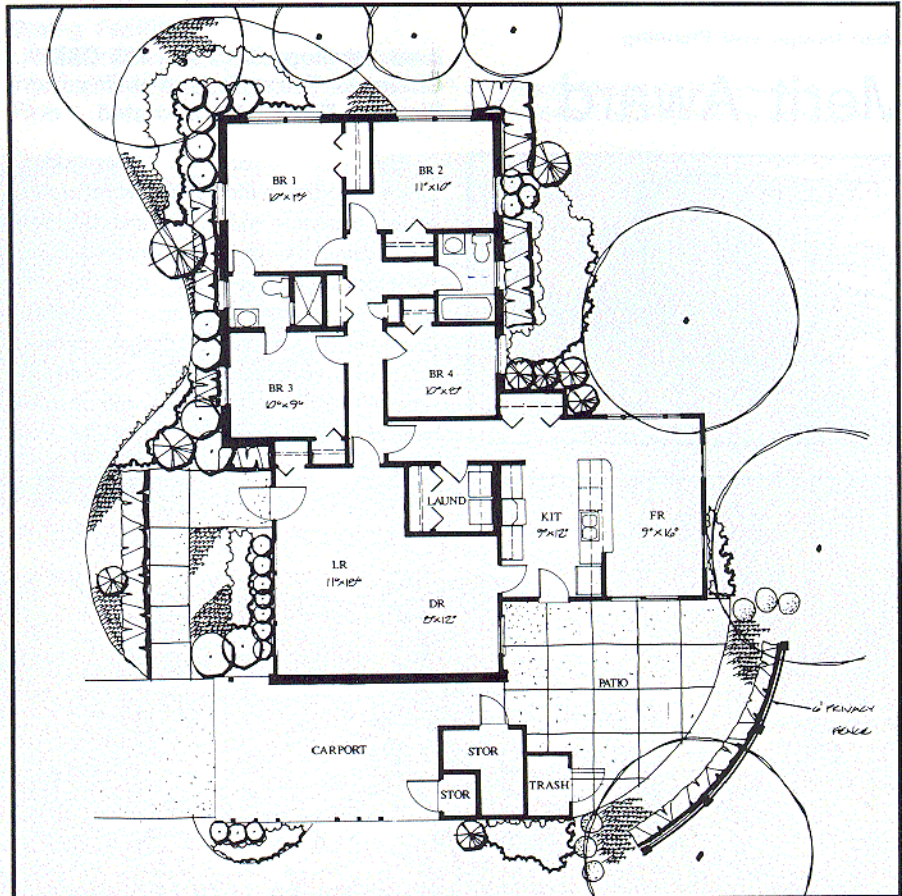
Intersection Planting



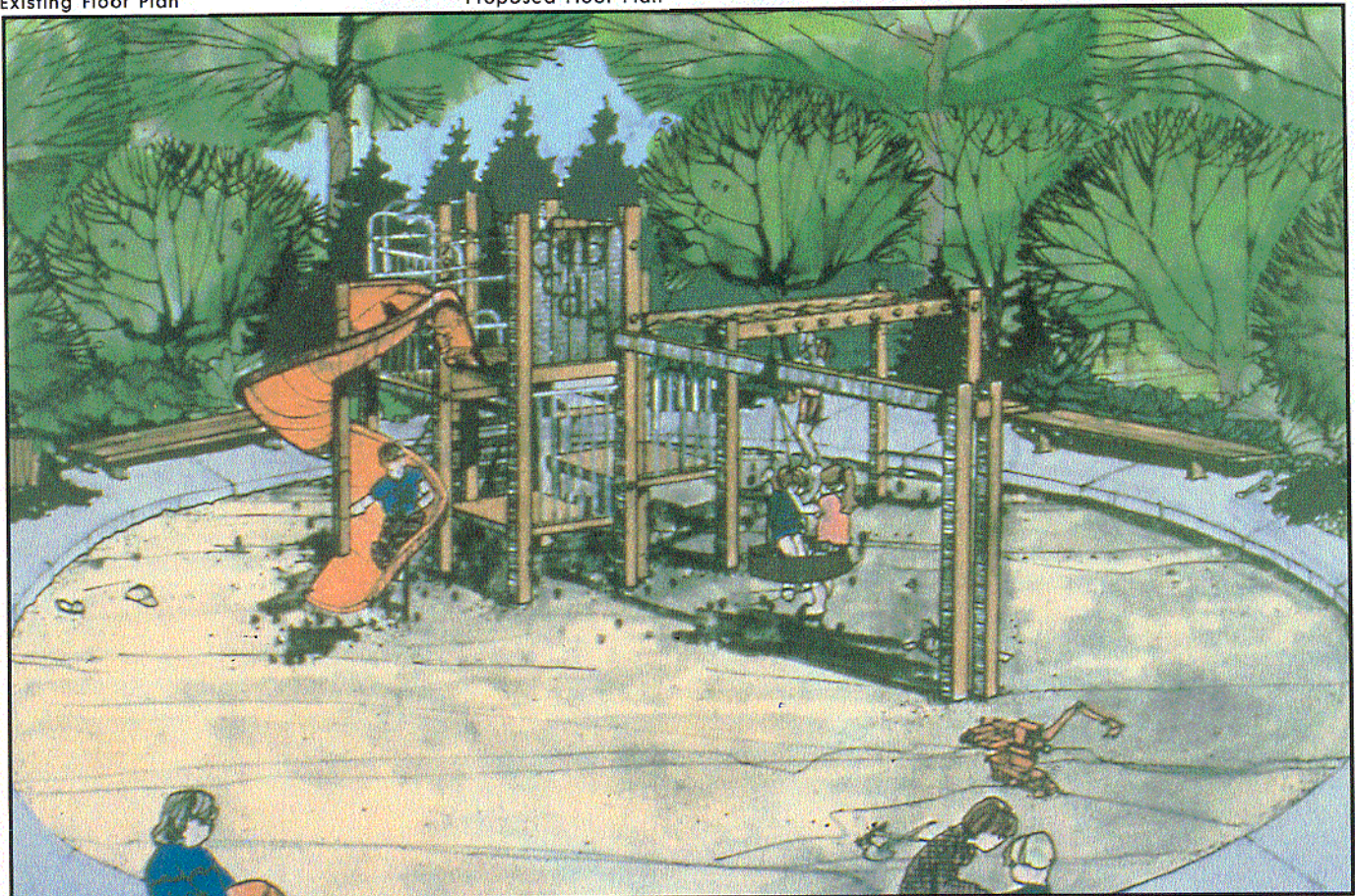
New Entrance—Elevation



Existing Floor Plan



Proposed Floor Plan

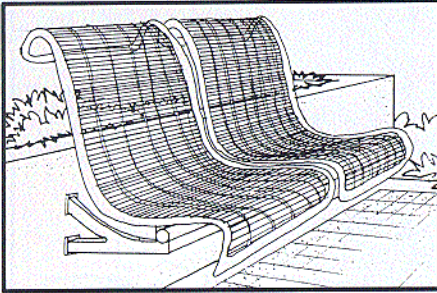


Rendering of Playground

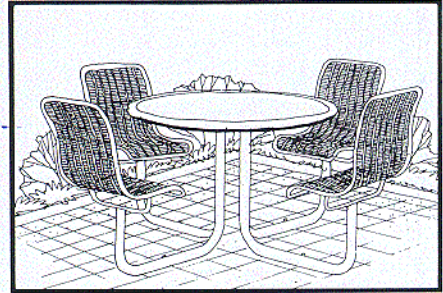
Merit Award

Area Development Plan, HQ CSD
Gunter Air Force Base, Alabama
Planner: EDAW, Incorporated

Host Command: Air University
Using Command: Air Force Communications Command



This plan corrects the "hodgepodge" look of existing buildings of very different scales, materials and colors and enhances the community image. It treats building entrances and creates pedestrian links to outdoor activity plazas. Thoughtful decisions on such urban design elements as lighting, paving, planting, site furnishings and building materials and finishes help unify and pleasingly "bind" the area.



Interior Design

Honor Award

Dining Facility

Little Rock Air Force Base, Arkansas

Interior Designer: The Mehlburger Firm

Command: Military Airlift Command

Base: 314th Civil Engineering Squadron



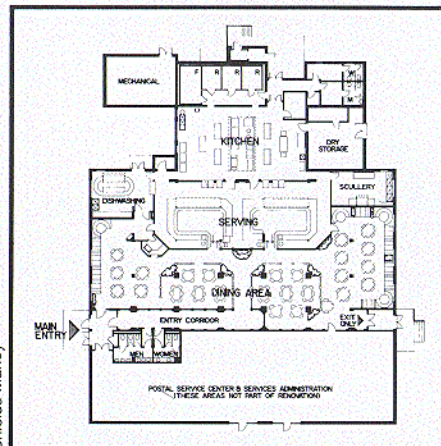
Shields-Marley

Dining

The designers of this Dining Facility were especially successful in transforming an existing "mess hall" atmosphere into a contemporary, efficient and truly inviting "restaurant" environment. This comprehensive project totally reconfigured the space, upgraded the mechanical system and added new windows to bring in needed daylighting, resolving many traffic as well as energy issues. Materials and finishes are both durable and economical. Design of the furnishings used is consistent with architectural detailing, providing one of the several important aspects of this congruent and notable design solution.



Entrance



Floor Plan

Shields-Marley



Dining



Dining

Shields-Marley

Interior Design

Honor Award

SAC Theater and Lobby

Offutt Air Force Base, Nebraska

Interior Designer: Peggy Twohey

Command: Strategic Air Command

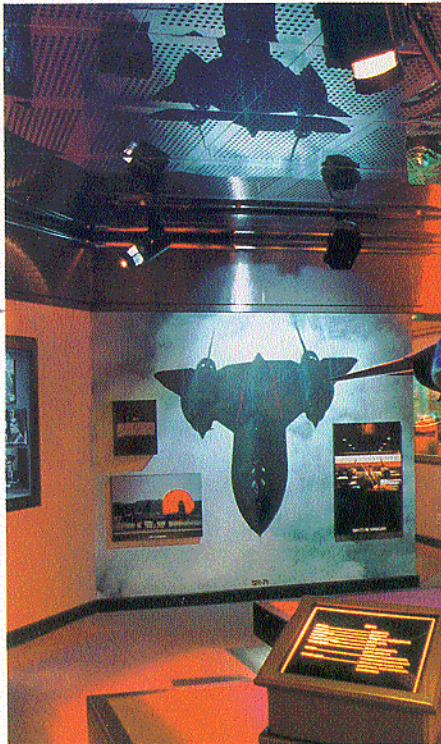
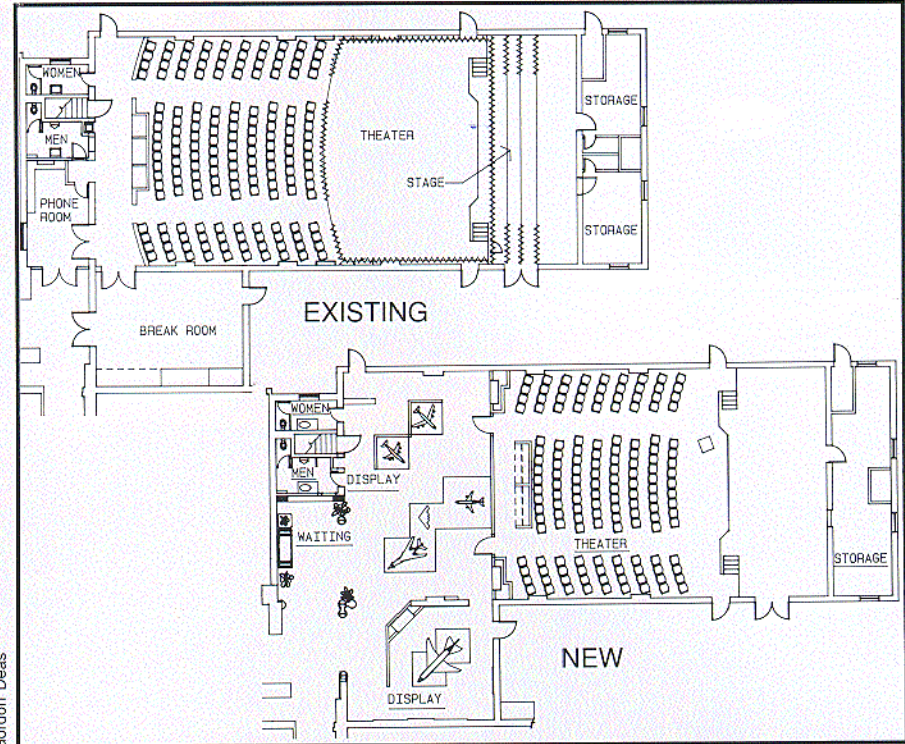


Exhibit Detail



Floor Plans



Auditorium

The purpose of this interior design project was to renovate a theater having a one hundred fifty person capacity and create a museum area to display the missile and aircraft models significant to the Strategic Air Command mission and heritage. Working within the given envelope of the existing theater, designers demonstrated excellent space planning ability in rearranging the space to maintain the existing seating capacity while allowing the required display area in the theater lobby. It is of special interest that this theater and "museum" is located within an administrative setting . . . that the display of artifacts is in the theater access area . . . and that frequent people traffic makes this an important and "living" display. Accordingly, special care was taken to involve observers in the essence of the items displayed. Finest exhibition techniques were used. Well organized and exciting visual images are enhanced by dramatic lighting and both create and allow the high energy of a space well used by the men and women of the Strategic Air Command and their guests. This significant and successful project is an excellent example of interior design that communicates who we are.



Waiting

Gordon Deas



Display Area

Gordon Deas

Interior Design

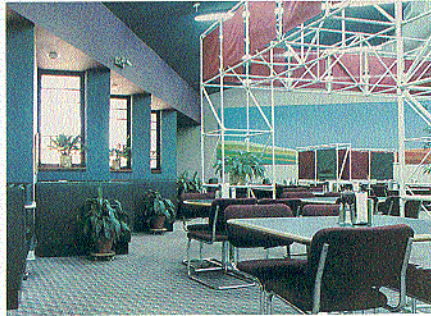
Merit Award

Responding to expansive "openness", this creative interior design solution brought an existing environment into a more comfortable, humanizing scale, appealing to our visual, tactile and acoustical senses. Angular furniture placement, modular space frame systems and good color, texture and pattern relationships relate to the architecture, visually lower the ceiling and make the final difference in an exciting space.

Dining Facility

Whiteman Air Force Base, Missouri
Interior Designer: Ed Svajgl, CFID

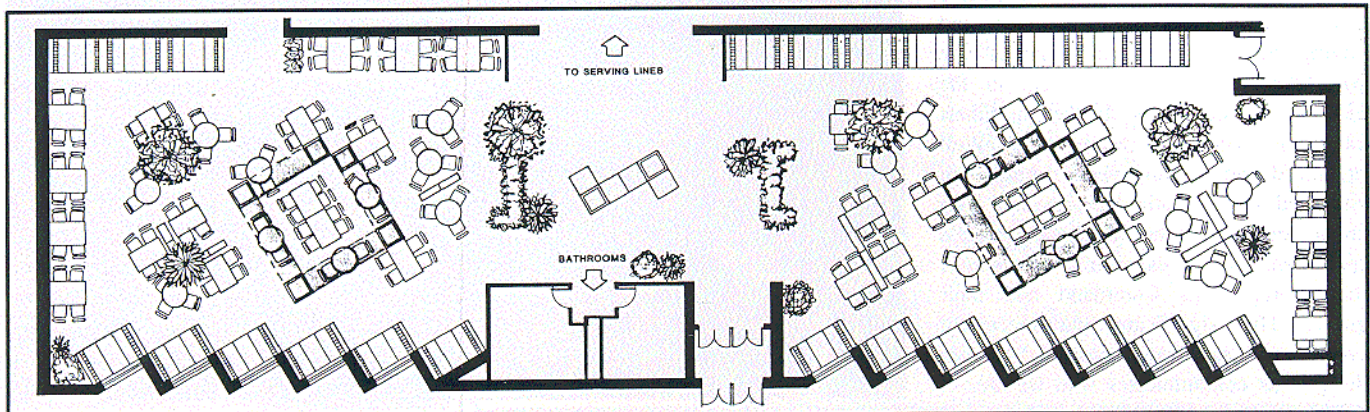
Command: Strategic Air Command
Base: 351st Civil Engineering Squadron



WAFB Photo



WAFB Photo



Floor Plan



WAFB Photo

Interior Design

Merit Award

The casual bar lounge of the Seymour Johnson Officers Club was outdated and showed years of use. The designers were extremely successful in upgrading its appearance and increasing patron capacity and participation to allow a more profitable operation. The bar was relocated, providing additional floor space for seating and more efficient bar service. New raised floor areas help define space and create interest.

Officers Club Casual Bar Lounge
Seymour Johnson Air Force Base,
North Carolina
Interior Designer: 1Lt Paul Allen

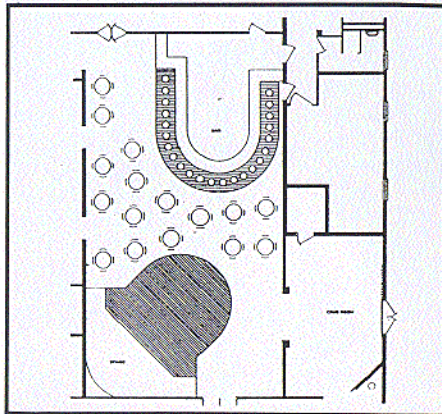
Command: Tactical Air Command
Base: 4th Civil Engineering Squadron

Intimate seating areas encourage relaxed "people watching" and small group activity. Standing height countertops and tables bring greater socializing into the central space. A larger dance floor and new disc jockey area were added. Oak wainscot and brass handrails contrast with darker carpeting and wallcovering. This well-detailed space was designed and constructed in-house and speaks to the talent and pride of its users.



Existing

Jim Sink

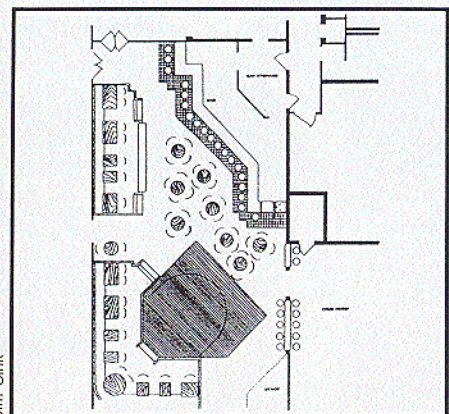


Existing Plan



New Dance Area

Jim Sink



New Plan



Bar

Jim Sink

Juries

Architecture and Engineering



Anthony Pellecchia, AIA, Nicholai Kolesnikoff, SAME, Wendy Evans, AIA, and John A. Sporidis, SAME.

Mr. Anthony Pellecchia, AIA, has been President of Pellecchia-Olson Architects, P.C. of Denver, Colorado since 1984. Since his first professional position with Louis I. Kahn, FAIA, in Philadelphia (1967-1972), he has been with several notable firms in positions of Partner, Owner and Principal. Having received his own degree from the University of Illinois, Mr. Pellecchia has taught at the University of Colorado at Denver, and in Philadelphia at Drexel University and the Philadelphia College of Art. He has been widely published and received as a lecturer, exhibitor, and winner of professional awards. He represented the American Institute of Architects on the jury.

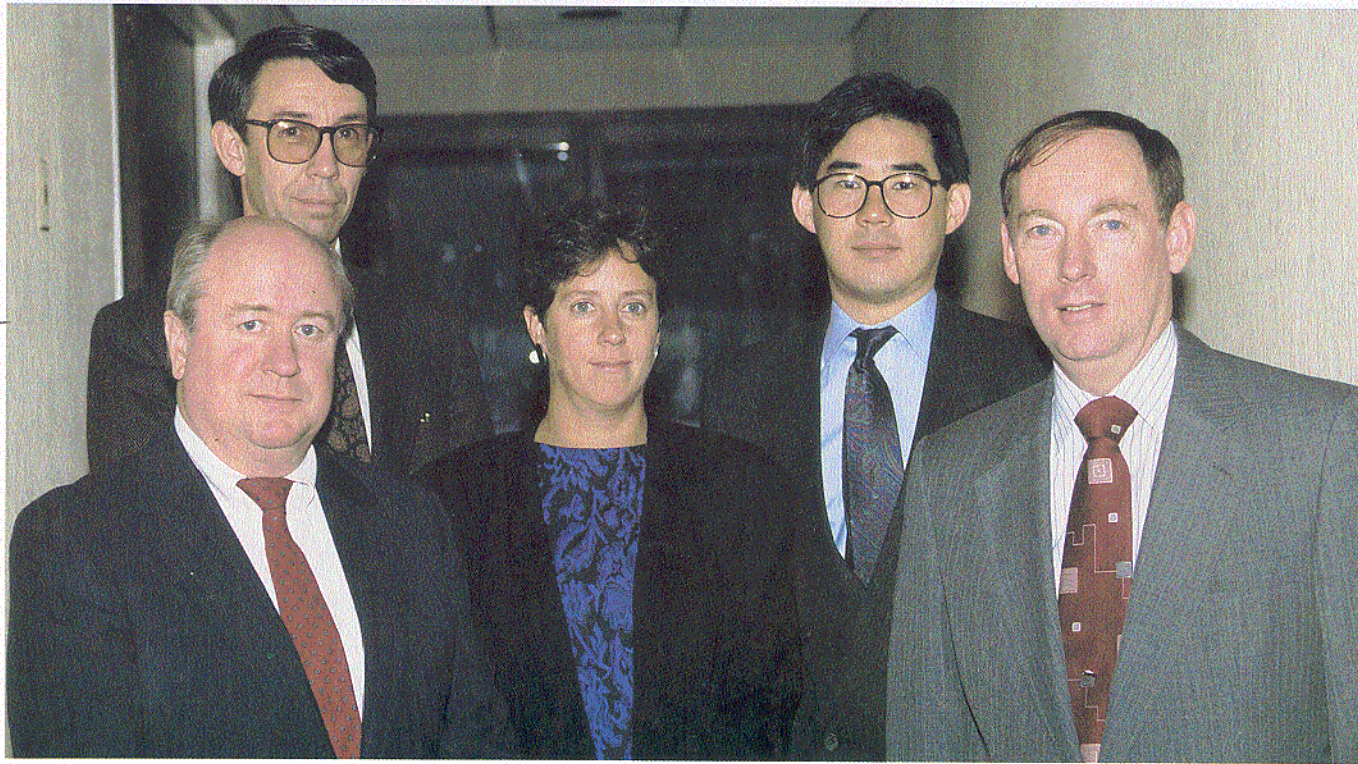
Mr. Nicholai Kolesnikoff is the Executive Vice President of 3DI, Inc., the project management subsidiary of 3D/International. He has a varied and comprehensive background in the fields of planning, architecture, and construction management, and has been involved in nearly all of 3D/International's federal projects. He is currently serving as the Principal-in-Charge of a new headquarters building for the U.S. Department of Transportation, Washington, D.C. He is a graduate of the University of California at Berkeley and has written and lectured extensively. He represented the Society of American Military Engineers on the jury.

Ms. Wendy Evans, AIA, Senior Associate, Pei Cobb Freed & Partners, New York, received a University of Pennsylvania Bachelor of Arts degree Summa Cum Laude and a Masters of Architecture with Distinction from Harvard University. She serves on the Architects, Designers, Planners for Social Responsibility New York Board of Directors and the American Institute of Architects National Committee On Design. She was Associate Designer, U.S. Holocaust Memorial Museum, Washington, D.C., and is Designer for the JFK Airport Redevelopment Program, New York. Her awards include the Rome Prize in Architecture, American Academy in Rome and the Henry Adams Medal and Certificate of Merit from the American Institute of Architects whom she represented on the jury.

Mr. John A. Sporidis, PE, is Senior Vice President and National Director of Federal Programs for Henningson, Durham & Richardson, Inc. (HDR) at their eastern regional headquarters in Alexandria, Virginia. Prior to joining HDR, he was with Syska & Hennessy at their headquarters in New York City where he was associate partner responsible for the project management of the firm's international work which primarily consisted of DoD-sponsored projects in Europe and the Middle East. As Chairman of the Scholarship Committee, he is a Member of the Board of Directors of the Society of American Military Engineers and represented them on the jury.

Juries

Urban Design and Planning



Front: John B. Slater, FASLA, Julie Pastor, AICP, and Stephen A. Scully, PE.
Rear: Stephen S. Fuller, AICP, and Rae F. Noritake, AIA.

Mr. John B. Slater, FASLA, received his Bachelor of Landscape Architecture from Syracuse. He worked with A.E. Bye Associates, Connecticut, and as Senior Landscape Architect, Rouse Company in the "New Town" of Columbia, Maryland. In 1974, he established Slater Associates to design public parks and do site planning. He holds a Council of Landscape Architectural Registration Boards certificate and is registered in Maryland and Virginia. He was vice president of the American Society of Landscape Architects (ASLA) for two years; the Maryland Chapter Trustee for six years; and is on the ASLA National Public Relations Committee.

Ms. Julie Pastor, AICP, is Project Manager and Senior Planner for Sasaki Associates, Inc., Washington, D.C. She has over ten years of professional experience in land use and community planning, housing and economic development. She has gained considerable experience with both local and federal government processes through the management and direction of major land use studies within the greater Washington metropolitan area. She was a Senior Associate of EDAW, Inc., and a Senior Planner with the District of Columbia Office of Planning. She is a member of the American Institute of Certified Planners and the American Planning Association.

Mr. Stephen A. Scully, PE, has over twenty years experience as a civil engineer. He received a Bachelor of Science in Civil Engineering from Tufts University and a Masters of Engineering Administration from George Washington University. He is a retired Commander and is currently the Chief of the Military Family Housing Branch of the National Association of Home Builders National Research Center where he is responsible for all research and consultation with the Department of Defense on family housing issues. He co-authored the Air Force Unit Assessment Guide and the Army Housing Planning Guide.

Dr. Stephen S. Fuller, AICP, is Professor of Urban and Regional Planning and Chairman, Department of Urban Planning and Real Estate Development at George Washington University. He received his Doctorate in Regional Planning from Cornell University. He has authored more than one hundred articles, papers and reports on housing, urban planning and economic development. He has had consulting assignments and lectured in numerous countries. His recent research focuses on the fluctuating economic structure of the Washington metropolitan area and impact of the federal government's changing role as a major business activity within the economy.

Mr. Rae F. Noritake, AIA, is Principal of Noritake Associates in Alexandria, Virginia. Before establishing his firm in 1986, he was Senior Designer and then Associate Vice President in the Denver, Colorado office of the WZMH Group, Inc. He received his Bachelor of Architecture degree from the University of Idaho. He has won several local and state AIA design awards as well as the Owens Corning Energy Conservation Award and 6th National Passive Solar Design Award. He holds a certificate from the National Council of Architectural Registration Boards and is a member of the Virginia Society of Architects and the American Institute of Architects.

Juries

Interior Design



Craig Marlow, IDEC, Judith Dailey, CFID, and Dale O. Jackson, RA.

Mr. Craig Marlow is an Associate Professor of Interior Design at Virginia Commonwealth University. He holds Bachelor and Master of Fine Arts degrees from Louisiana Polytechnic University. He is a former instructor of interior design at Mississippi University for Women and the University of Georgia. Also a private design consultant for many firms, his work has included projects for Radisson, Hilton and Hyatt hotels. He is a corporate member of the Interior Design Education Council (IDEC) and serves on the Board of Visitors for Accreditation of the Foundation for Interior Design Education Research.

Ms. Judith Dailey, CFID, holds a Building Planner position with the National Archives and Records Administration in Washington, D.C. Having worked in both the private sector and the federal government, Ms. Dailey has over fourteen years of experience as a professional interior designer and project manager. She received a Bachelor of Arts degree in Interior Design from Mount Vernon College in Washington, D.C. She is an active member and currently serves as the national Secretary of the Council of Federal Interior Designers (CFID).

Mr. Dale O. Jackson, RA, is a registered architect on the Headquarters U.S. Air Force staff of The Civil Engineer in Washington, D.C. He has a Bachelor of Architecture degree from Hampton University in Virginia and a Master of Architecture in Urban Design from Virginia Polytechnic Institute and State University. He has also studied at the University of Illinois, Chicago Circle and at the University of Massachusetts. His prior federal service positions included Architect and Planner at Cannon Air Force Base, New Mexico and Chief of Architecture for Yokota Air Base, Japan.

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Research & Specialized Facilities

Visitor Center, National Cemetery
Arlington, Virginia

Engineering & Industrial Facilities

Explosive Handling Wharf No.1
Naval Submarine Base, Kings Bay,
Georgia

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Page Manor Family Housing
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Interior Design

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Landscape Architecture

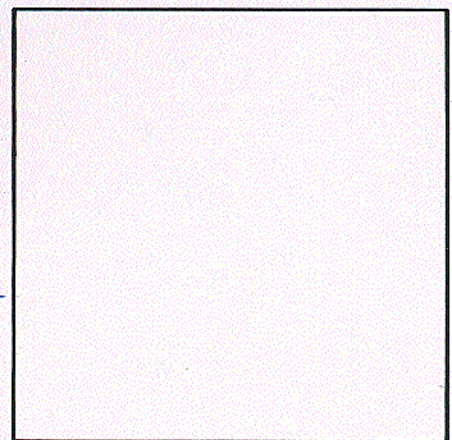
Ceiba Tree Park
Ponce, Puerto Rico

Energy Conservation

Space Command Headquarters
Peterson Air Force Base, Colorado

Special Recognition

Chemical Agent Disposal System
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