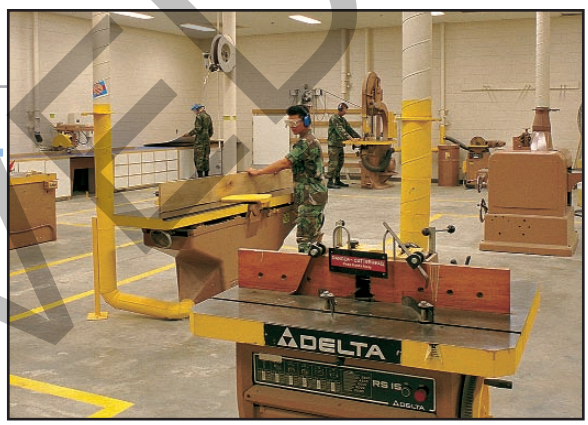
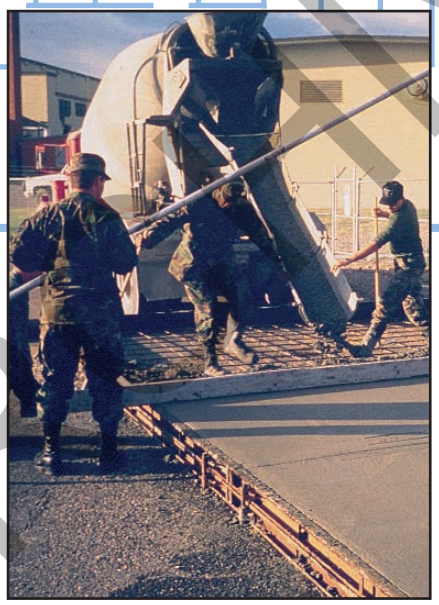
AIR MOBILITY COMMAND

CIVIL ENGINEER SQUADRON DESIGN GUIDE





Air Mobility Command's civil engineer squadrons provide vital support to the Air Mobility Team. They construct, operate, and maintain AMC's facilities; provide emergency services; and orchestrate our efforts to preserve and enhance the environment.

As these civil engineering troops are leading the charge to upgrade facilities in our command, AMC needs to give them an environment in which they can be fully productive and proud to serve. This guide sets new standards—they will be the keys to success in planning, programming, design, and construction of excellent facilities.

"The Air Mobility Team…Responsive Global Reach for America…Every Day!"

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Chapter 1

Introduction

A. Purpose

This guide provides the basic criteria to organize, evaluate, plan, program, and design Air Mobility Command (AMC) civil engineer (CE) facilities. The information presented is intended to make commanders and their staffs aware of important design considerations and to aid them in project development. These facilities should provide an atmosphere in which customers feel comfortable while receiving quality assistance. This guide is for use by commanders, Headquarters AMC staff, design architects and engineers, and others involved in CE facilities design and construction. Use this guide to supplement other Air Force (AF) and Department of Defense (DoD) policies and instructions.

Chapters 2 and 3 address most of the flights of a CE squadron. Family housing, fire station, and self-help store facility design guidelines have already been published in the AMC Commander's Guide to Family Housing Excellence, the Air Force Housing Support Facilities Guide, the AMC and Air Combat Command Fire Station Facilities Design Guide, and the Commander's Guide to Self-Help Success.

A typical CE squadron operates from multiple facilities. The CE complex contains the main CE building, the readiness facility, covered storage facilities, the vehicle wash rack, and the gas mask confidence facility. Some members of the squadron work outside the complex in "remote" facilities, which include the entomology and explosive ordnance disposal facilities.

This guide organizes the various functions of the CE squadron into administration and shop/warehouse areas, then discusses the squadron's remote facilities (Figure 1-A). Chapter 2 addresses the functional area relationships between these areas in more detail.

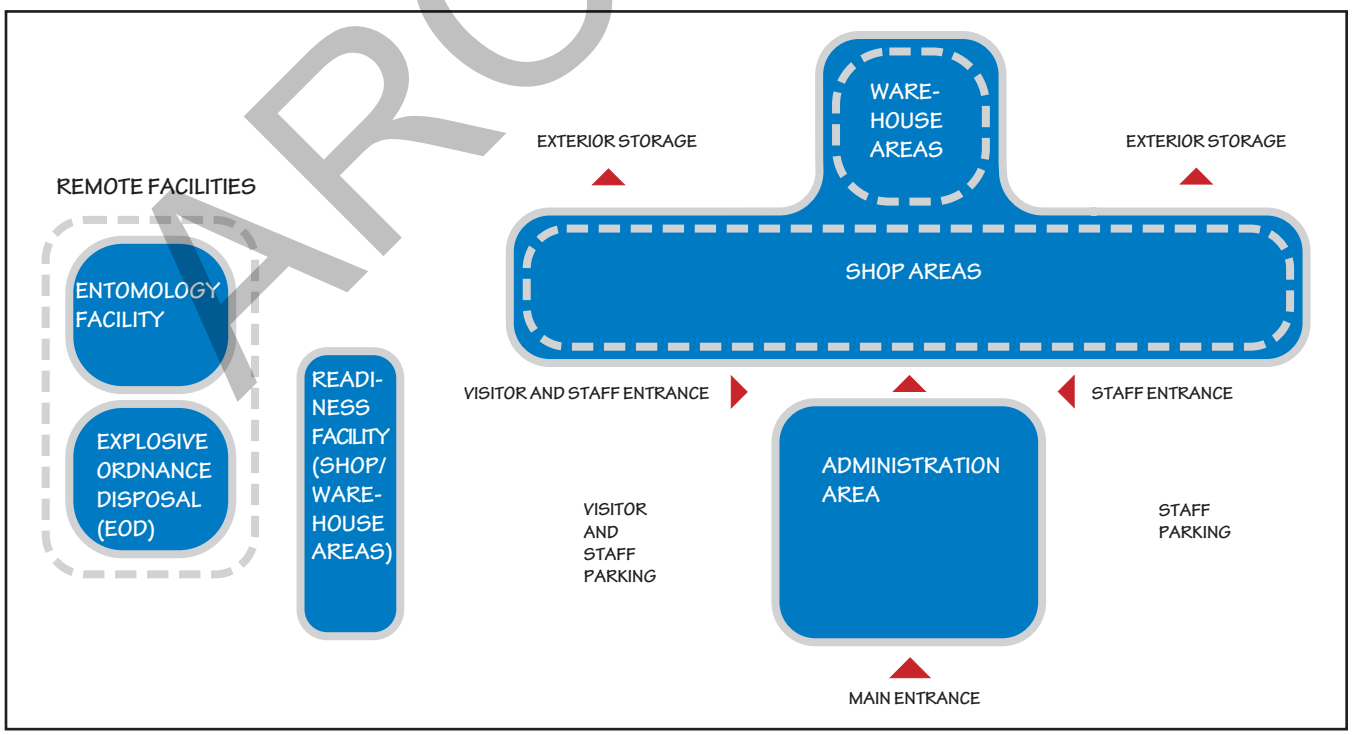


Figure 1-A: Functional Area Relationships.

B. Project Development

1. Planning

Good planning establishes the objectives for an effective program and provides the means to help meet them. It should also lead to a timetable for project completion. Planning must be long-term. When planning a new facility, complete the site selection prior to preparing a DD Form 1391, Military Construction Project Data.

2. Programming

Programming includes determining user requirements, developing solutions, identifying funding sources, and forwarding programming documents to the appropriate review and approval authorities. Each project should be consistent with the base comprehensive plan for new and existing facilities. Work is classified as maintenance, repair, or minor construction. Information required during preparation of the DD Form 1391, which initiates project development, is found throughout this guide. Included are considerations of space criteria, overall facility size, and special factors for use in estimating costs.

3. Design

Design includes concept development, design reviews, and final design drawings and specifications. It is important for all participants to actively communicate throughout the design process to bring about a successful project.

Life safety code requirements take precedence over other facility improvement requirements. All areas should be barrier free and accessible to the disabled in accordance with the Americans with Disabilities Act (ADA) and Uniform Federal Accessibility Standards (UFAS).

The designer should complete an overall comprehensive interior design (CID) standard for your facilities in conjunction with any major design project. The CID standard addresses interior finishes, artwork, signs, and furnishings. It ensures even small upgrade projects meet the design objectives for all CE facilities. Refer to the AMC Interior Design Guide for an expanded discussion of interior design.

Integration of engineering, architectural, and interior design considerations during project development creates a well coordinated interior design. Analyze an existing facility's structural, electrical, communications, and mechanical systems before planning interior design upgrades. The designer should include infrastructure improvements concurrently with interior finish work when appropriate.

4. Construction

Quality reviews of the contractors' submittals by project engineers and frequent on-site inspections by civil engineering construction management personnel and the user will help to ensure design goals are met. ■

Chapter 2

Site Considerations

A. General

This chapter includes functional area relationships within the CE complex, as well as exterior elements. Use the guidance that suits the needs of your squadron, increases your operations' efficiency, and enhances the visual quality of your squadron's facilities.

B. Functional Area Relationships

The CE squadron is a team of engineers, architects, craftsmen, logisticians, and administrators. The squadron operates most efficiently when the following are near each other:

- Command Section
- Engineer Flight
- Environmental Flight
- Resources Flight
- Operations Center

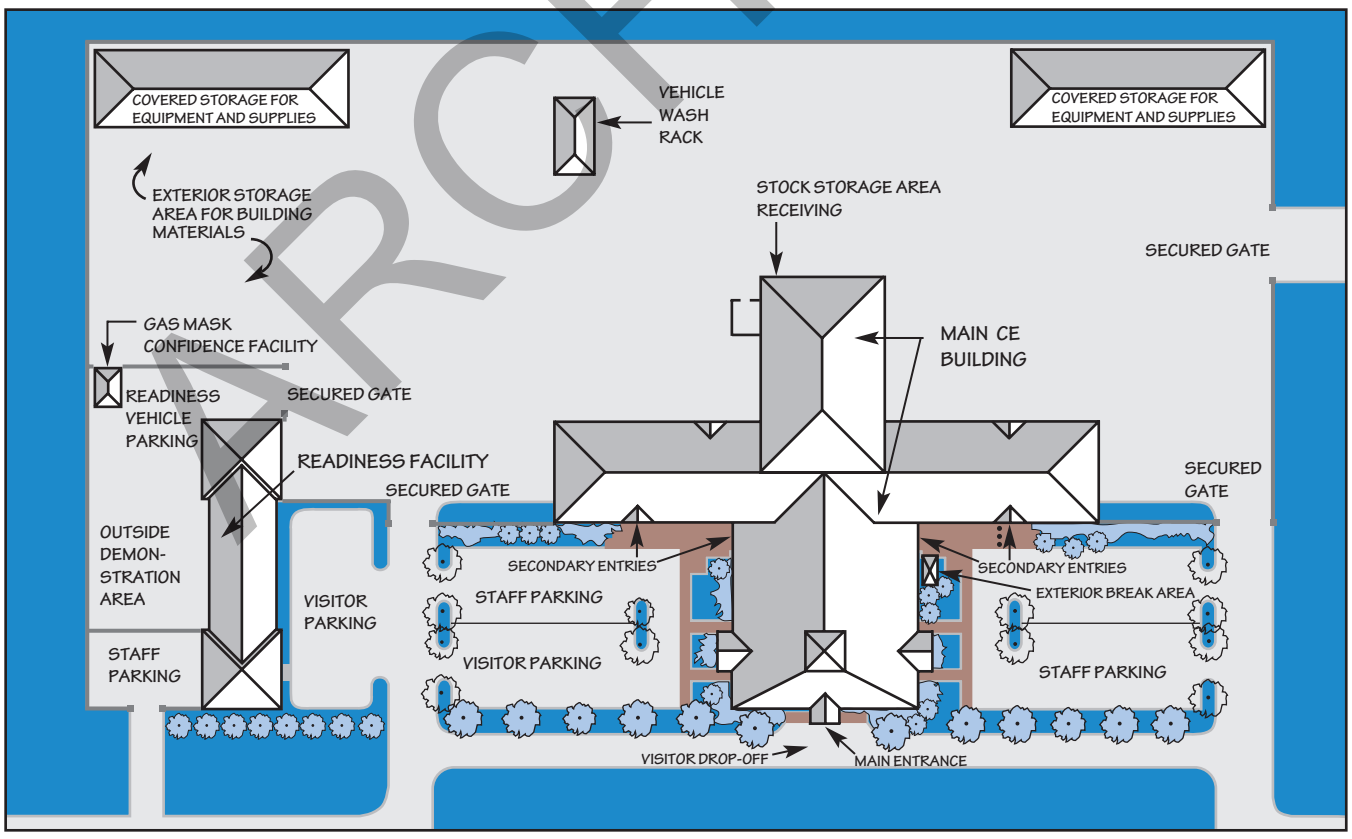


Figure 2-A: Concept Site Plan for the CE Complex.

Locate these flights in the administration area of the main CE building. This administration area should be near the main entrance to the CE complex so visitors can easily identify it.

A one-story facility is the AMC standard, though site concerns such as availability of land may dictate a two-story administration area design. In that case, locate the Command Section with the Operations Center and Resources Flight on the lower level, and the Engineer and Environmental Flights on the upper level (see Figure 2-B).

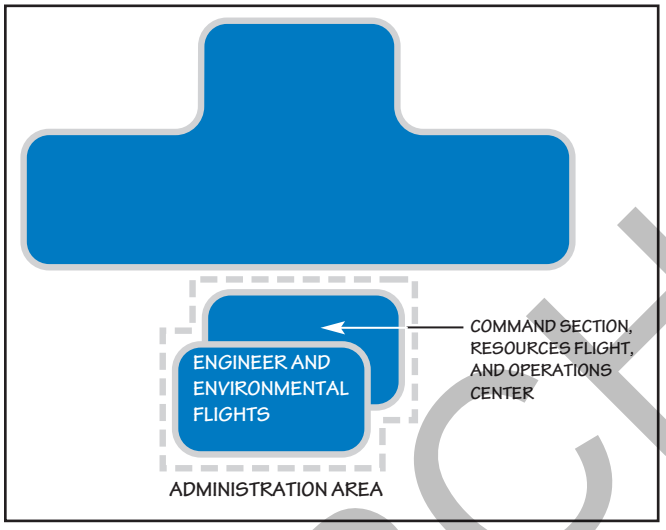


Figure 2-B: Concept Plan for Optional Two-Story Administration Area.

Provide a "zonal maintenance" shop in each major geographic area or "zone" of the base. The squadron commander determines the number of zones depending on the mission and size of the base. For small bases with only one or two zones, it is feasible to locate all zonal maintenance shops in the CE complex as long as each zone's shops are separate.

Locate the readiness facility in the CE complex because squadron personnel frequently need to use the readiness classrooms for training. Because the Explosive Ordnance Disposal (EOD) Flight stores and uses small explosives, locate it in a facility which meets applicable safety standards.

Utility plants, entomology facilities, snow removal equipment storage facilities, and outdoor readiness training areas are other examples of squadron facilities which are separate from the complex. This guide does not address utility plants or snow removal equipment storage facilities in detail.

Entomology facilities should be separate from the main CE building.

C. Exterior Elements

1. General

Exterior elements provide the first impression visitors have of the squadron's facilities and quality of service. This section addresses entries, exterior signs, parking areas, exterior storage areas, screen walls, landscaping, and an exterior break area. The Architectural Compatibility Plan for each base will help in the design of these elements.

2. Entries

The entry to the CE complex and its administration area should be easily identifiable to first time visitors. Provide a visitor drop-off area at the main entrance to the administration area. Consider secondary entries near parking areas for squadron personnel.

3. Exterior Signs

Exterior signs include facility, directional, and parking signs. Follow the AMC sign standards. Locate facility signs at the primary entrance to the CE complex and remote facilities. Directional signs should guide vehicle and pedestrian traffic to each facility. Use parking signs to designate visitor, staff, and handicapped parking areas.

4. Parking Areas

Include designated spaces for visitors and squadron staff. Locate handicapped parking near building entries. Parking requirements will depend on the size of the squadron. Parking for all privately owned vehicles should be separate from equipment storage areas and other government vehicle parking areas.

- Parking for government vehicles should be within a secure, screened compound, adjacent to the shops and logistics management areas.
- Provide additional parking at the readiness facility for base personnel who attend training classes.
- Secure EOD Flight parking areas with a fence and double gate. Include security lighting in these areas (see Figure 3-O, page 24).

Use screen walls around unattractive storage areas, and provide ample off-street parking for visitors.

5. *Exterior Storage Areas*

The CE complex and EOD facility require exterior storage areas with power outlets and lighting. Locate a covered storage area in the complex for building materials and miscellaneous small equipment.

Exterior covered storage facilities should include overhead doors to secure equipment and supplies, and provide ease of access.

6. *Screen Walls*

Screen walls can hide exterior shop and storage areas. The design of screen walls is part of each base's Architectural Compatibility Plan.

7. *Landscaping*

Landscaping elements help create a quality appearance around all CE facilities. These elements screen parking areas and define building entries. Landscaping elements include earth berms, shrubs, trees, and flowers. Refer to the AMC Landscape Design Guide for specific information.

8. *Exterior Break Area*

Provide a covered patio to serve as a break area and a personnel gathering place for squadron activities. Locate this area away from the complex entrance, and provide privacy through the use of screen walls and landscaping. ■

Provide an exterior break area for squadron activities.

Chapter 3
Functional Areas

A. General

This chapter addresses the functional areas of each flight within the administration area, shop/warehouse areas, and remote facilities. The discussion includes the support each flight provides to the squadron's mission, interaction between the squadron's flights, and special requirements for the flights to function efficiently.

B. Administration Area

The Command Section, Engineer Flight, Environmental Flight, Operations Center, and Resources Flight require an office environment. A large portion of the office space should be open areas with systems furniture. Command Section, flight, and element supervisors require private offices near their respective open office areas so they can manage their personnel and provide private counseling. Administration support areas are for common use and include a main conference room, a copy machine room, a central break area, and rest rooms.

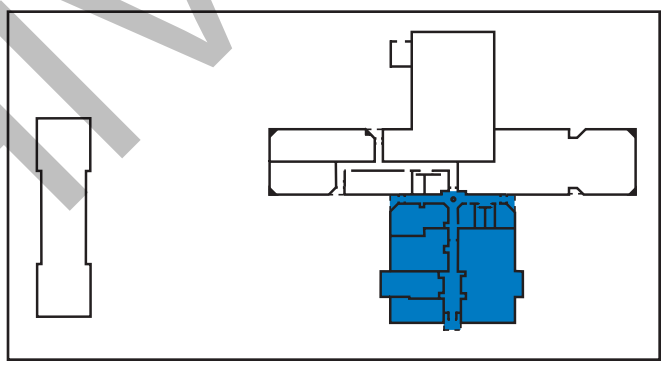


Figure 3-A: Location of the Administration Area in the CE Complex.

- Corridors should provide clear paths from administration area lobbies to the various flights.
- Conference and administration support areas are infrequent-use areas not requiring natural light. Locate these areas at the interior portions of open office areas.
- Centrally locate a main conference room for 30-35 people between the administration and shop areas of the main CE building. Include space for communications and audio-visual equipment.

1. Command Section

The Command Section is responsible for the daily supervision of all squadron activities. It includes the squadron commander, deputy base civil engineer, secretary/administration, squadron section commander (where authorized), first sergeant, orderly room, and conference room.

The Command Section interacts with all squadron flights on a regular basis. The Command Section should be easy to locate, have adequate directional and identification signs, and be accessible to visitors.

a. The squadron commander should have an executive office.

b. The deputy base civil engineer should have an executive office adjacent to the squadron commander's office.

Provide a waiting area for visitors to the Command Section.

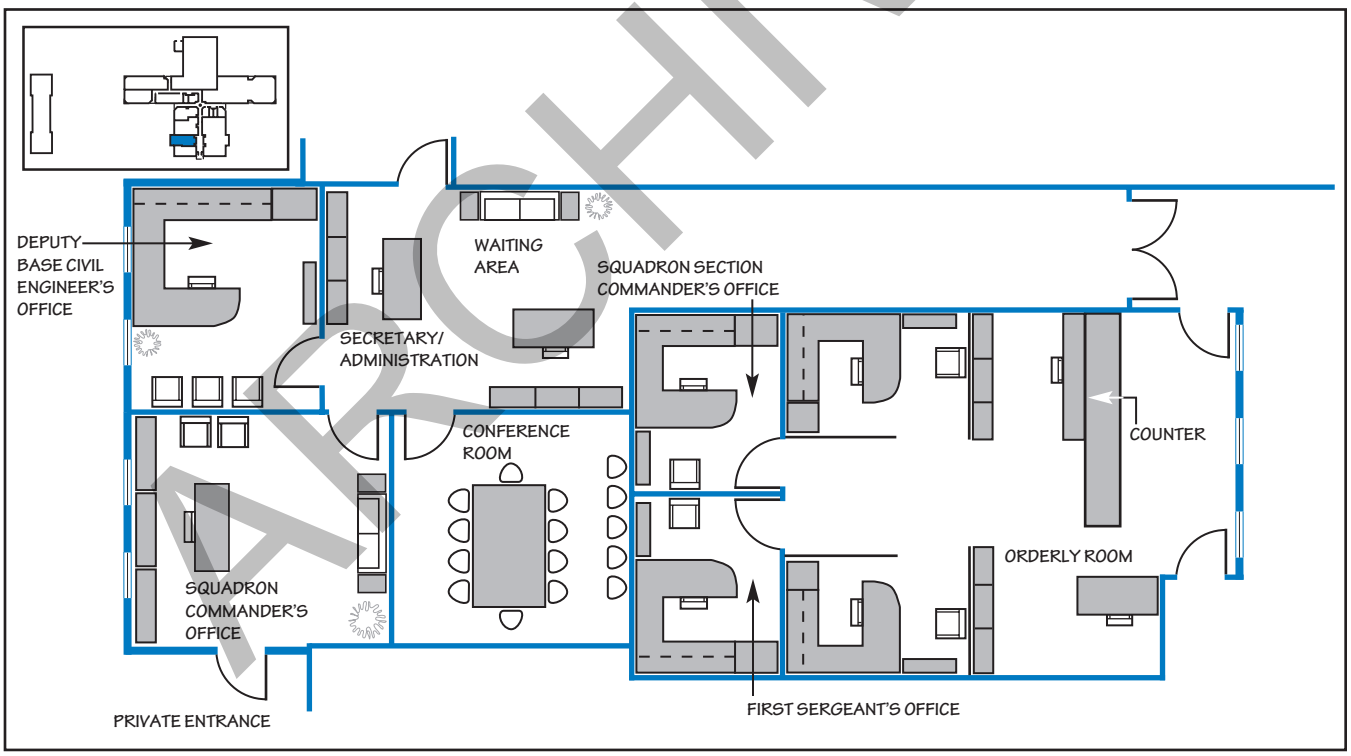


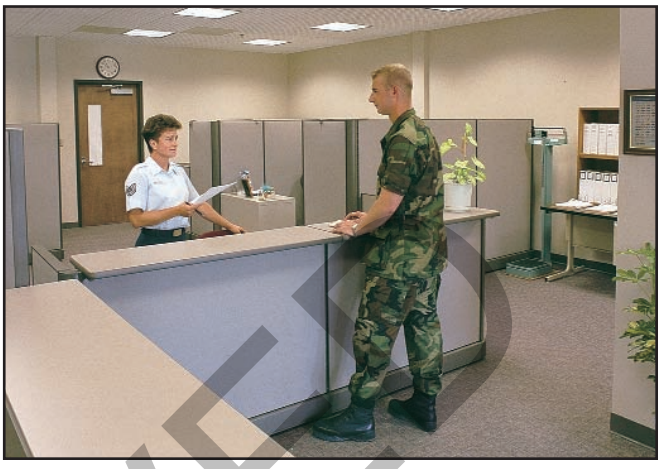
Figure 3-B: Command Section Concept Floor Plan.

c. Provide a small conference room for 12 -15 people for small group meetings chaired by the squadron commander or the deputy base civil engineer.

d. Squadron members visit the orderly room for weight checks, physician and dental appointment coordination, training appointments, status changes, and paperwork distribution. Locate this room centrally within the administration area so all members have easy access.

e. The squadron section commander supervises the orderly room staff and acts as the squadron commander's executive officer. Locate a private office for the squadron section commander adjacent to the orderly room.

f. Include a private office for the first sergeant adjacent to the orderly room.



The orderly room should have a reception counter.

The main conference room should accommodate 30-35 people.

Provide a central break area which includes counters, sinks, and appliances for food preparation.

2. Engineer Flight

This flight is responsible for programming, design, and construction management of large scale facility projects. Locate this flight within the administration area near the Environmental Flight and Operations Center.

- Include a private office for the flight chief.
- Locate a small conference room for 12-15 people in this flight for project review meetings.
- Provide an uninterruptible power source for drawing reproduction equipment and at least one computer aided drafting and design (CADD) workstation for base exercises and other contingency operations.

a. Programming personnel receive work requests and create project justification documents. They work closely with customers, design engineers, Simplified Acquisition for Base Engineer Requirements (SABER) project managers, and financial managers.

b. Design engineers and engineer assistants design in-house and contract work. This work includes periodic design reviews with multiple base agencies (safety office, bio-environmental engineers, communications squadron, security police squadron, users, and base operations) and outside agencies such as design agents, major command representatives, and architect – engineer firms.

c. Construction managers oversee the construction phase of projects. Though they are often monitoring projects on-site, they require workspaces to prepare inspection reports and review construction drawings and specifications.

d. The Engineer Flight also manages the SABER contract with a civilian contractor. SABER enables the squadron to quickly complete construction projects that do not require complicated design efforts.

Separate the sections of the Engineer Flight with well-defined corridors.

The Engineer Flight should have a conference room for project review meetings.

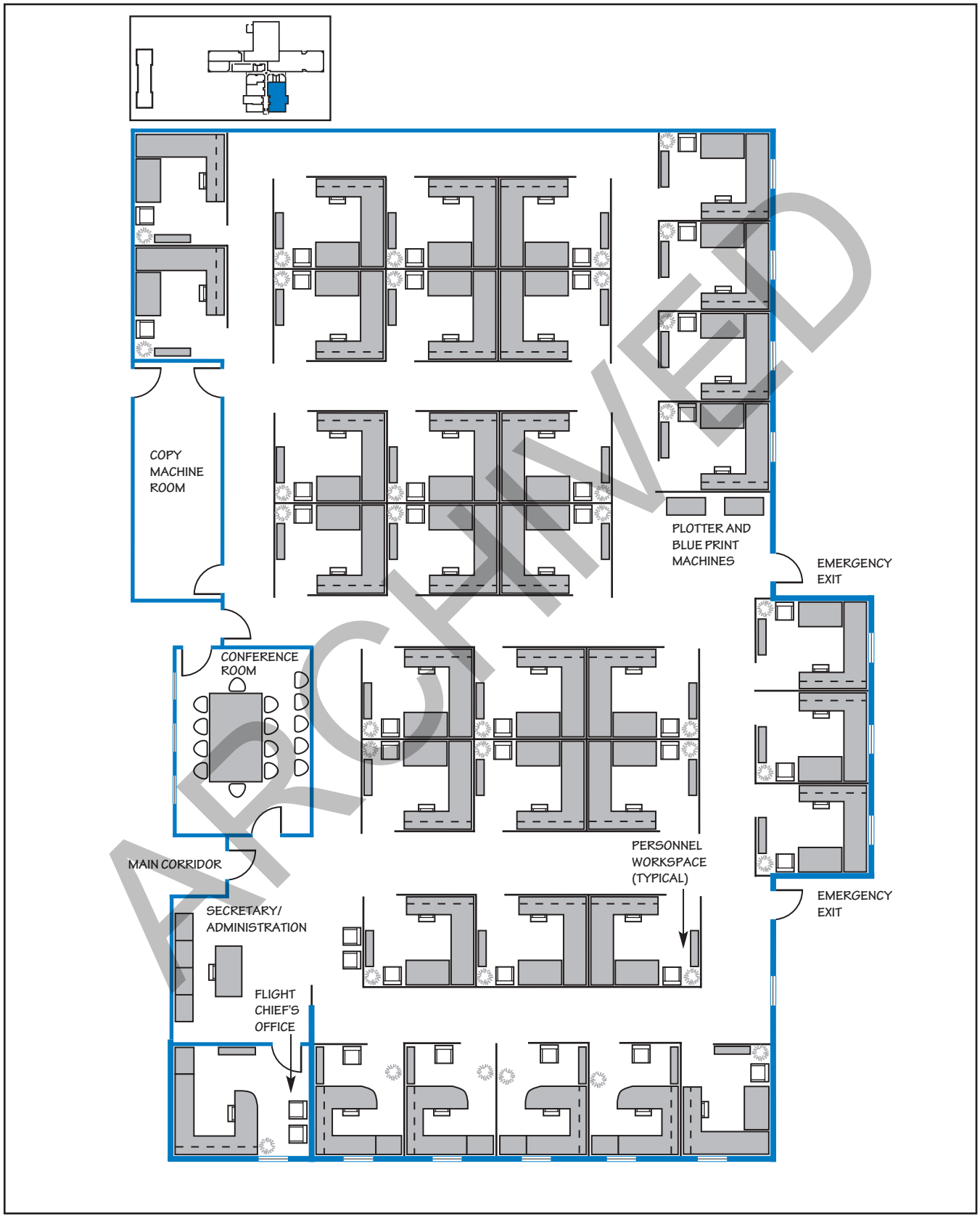


Figure 3-C: Engineer Flight Concept Floor Plan.

3. Environmental Flight

This flight manages the environmental restoration and environmental compliance programs for the wing. The flight frequently interacts with numerous outside agencies, public and private. Flight personnel work efficiently in an open office area. There should be a distinct separation between the various functions within the flight. Provide a private office for the flight chief. File storage areas and an accessible conference room are also required.

The Environmental Flight frequently interacts with the Command Section, as well as the Engineer, Operations, and Resources Flights.

a. Environmental restoration personnel manage all environmental remediation efforts on the base, including the design and construction phases. They work closely with the Engineer Flight to manage these projects.

b. Environmental compliance personnel ensure that the wing complies with applicable laws and regulatory requirements, and educates and trains the base populace on environmental issues and programs. They manage the wing's pollution prevention program; environmental compliance, assessment, and management program (ECAMP); environmental funding programs; and natural and cultural resources management programs.

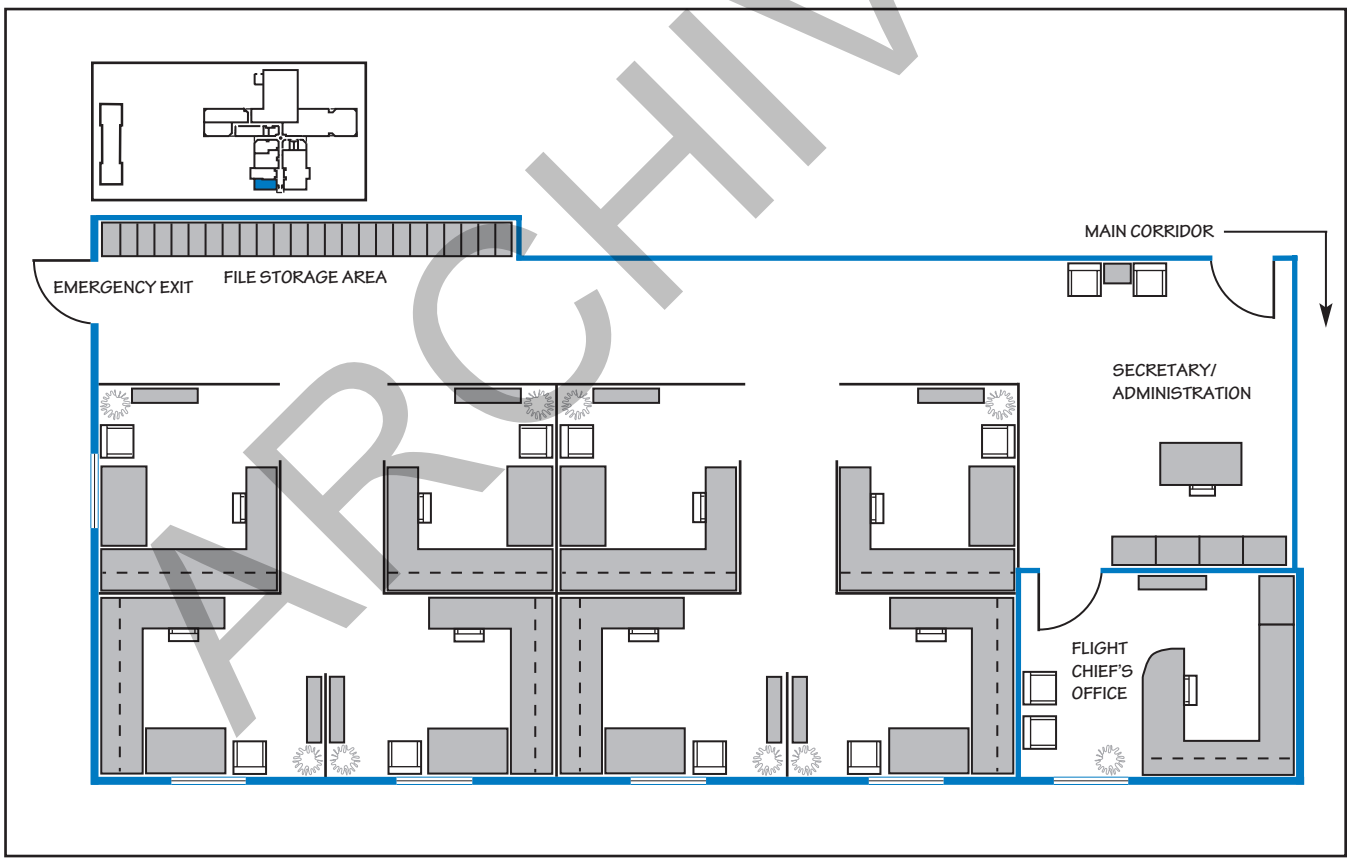


Figure 3-D: Environmental Flight Concept Floor Plan.

4. Operations Center

Locate flight and element supervisors in the administration area.

a. The following personnel require private offices:

- Flight chief
- Deputy flight chief
- Heavy Repair superintendent
- Facility Maintenance superintendent (supervises all zonal maintenance shops)
- Infrastructure superintendent

The flight chief and secretary interact daily with most of the other flights in the squadron. Other members of the Operations Center staff primarily interact with the shops, the orderly room, and the Resources Flight.

This flight should also house the damage control center, which should include sufficient space for 10-12 personnel, a radio base station, and wall space for charts, maps, and tracking boards for contingency operations. Include computer and communications equipment with an uninterruptible power source.

b. Maintenance Engineering incorporates an engineering capability in the Operations Flight to provide an effective liaison between the Engineer and Operations Flights. Locate the element near the Engineer Flight since they frequently interact on project work.

Include a fire-resistant vault/storage room to store facility drawings and an adjacent fume-vented drawing reproduction room.

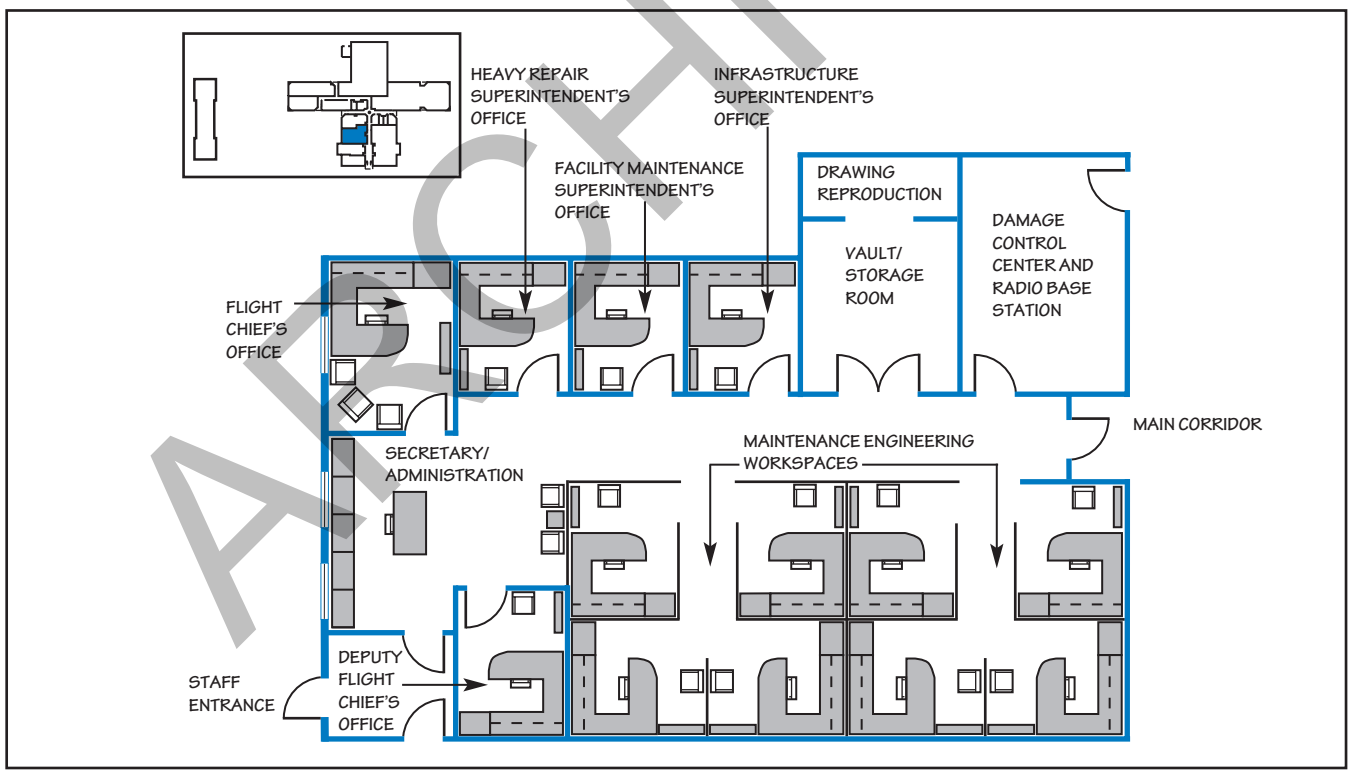


Figure 3-E: Operations Center Concept Floor Plan.

5. Resources Flight

This flight manages real estate files, squadron information systems, and financial resources. They require ample storage for files and records. Locate an environmentally clean room for the main-frame computer and server in this area. Include dedicated utilities for the computer room.

This flight interacts with all other flights in the squadron on a daily basis. Locate this flight in a central location within the administration area to provide the easiest access for all squadron personnel.

a. Real estate managers maintain records on all base facilities. They require workspaces at the interior of the flight area.

b. Information systems administrators should have workspaces adjacent to the main-frame computer room.

c. Financial managers process funding requests daily for CE personnel. Locate this area at the front of the Resources Flight for ease of access and to minimize interruptions to other flight activities. Provide a working area for analysis work.

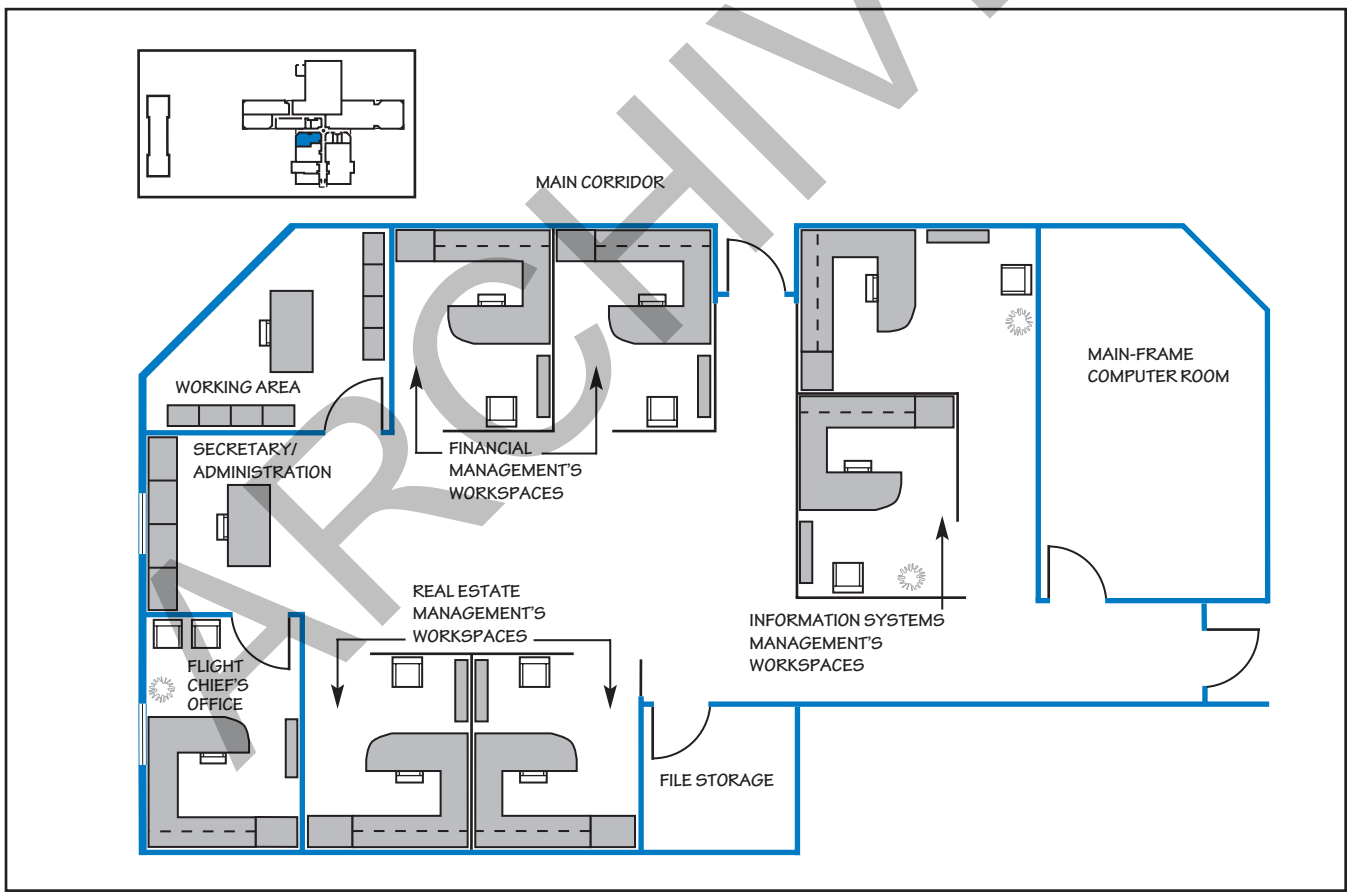


Figure 3-F: Resources Flight Concept Floor Plan.

C. Shop/Warehouse Areas

These areas support the Operations Flight and its many elements. Most personnel begin work days at their respective shops, storing personal items in the locker areas, receiving work assignments, and leaving to service various base facilities. Sometimes they bring service items, such as electrical or mechanical components, back to their shops for repair.

The logistics management area provides storage space for building supplies and equipment. Shop personnel visit this area to obtain bench stock for their shops and parts/supplies for work orders.

- Provide a covered work area outside the shops where craftsmen handle oversized parts. Incorporate overhead cranes into the roof structures of shops that support heavy equipment repair.
- Include an indoor corridor between the shops for weather protected access to the warehouse and administration area.
- Integrate a central dust collection system for shops with woodworking tools. Include air exhaust systems for the paint area and vehicle maintenance bays, which produce hazardous fumes.
- Include a private office in each shop area for the shop supervisor, a technical library area for repair manuals, adequate work space for tools and equipment, and a break area with lockers for the shop personnel. Locate shower facilities near the shops.
- Provide a mechanical room and rest rooms (with showers for shop personnel) in the support areas.

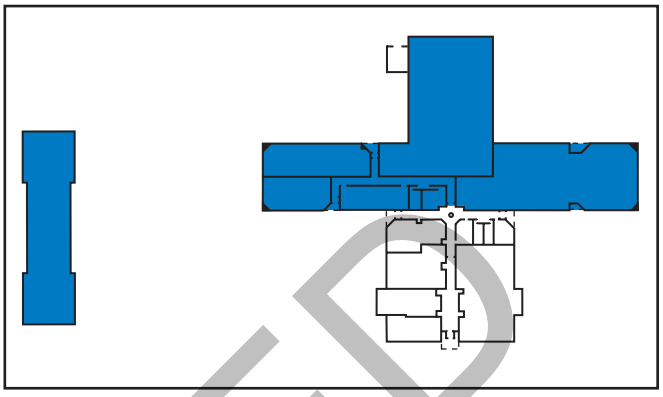


Figure 3-G: Location of the Shop/Warehouse Areas in the CE complex.

A covered work area outside the shops provides additional space for craftsmen to service equipment.

1. Operations Flight

This flight's responsibilities include managing and conducting all facility and infrastructure maintenance, small repair and construction projects, and most service contracts.

a. The Heavy Repair element includes the vertical and horizontal shops. These shops perform the more complicated in-house facility repair and construction projects.

Include an open office area for work planners. The vertical shop should have structural, sheet metal, plumbing, electrical, and paint areas.

The horizontal shop maintains base pavements, is responsible for landscaping, and performs entomology services. This shop also manages snow removal operations. The entomology facility is a remote facility outside the complex.

Include storage and maintenance space for government vehicles, equipment, and indoor storage for perishable supplies.

Some vehicles require servicing within shop facilities.

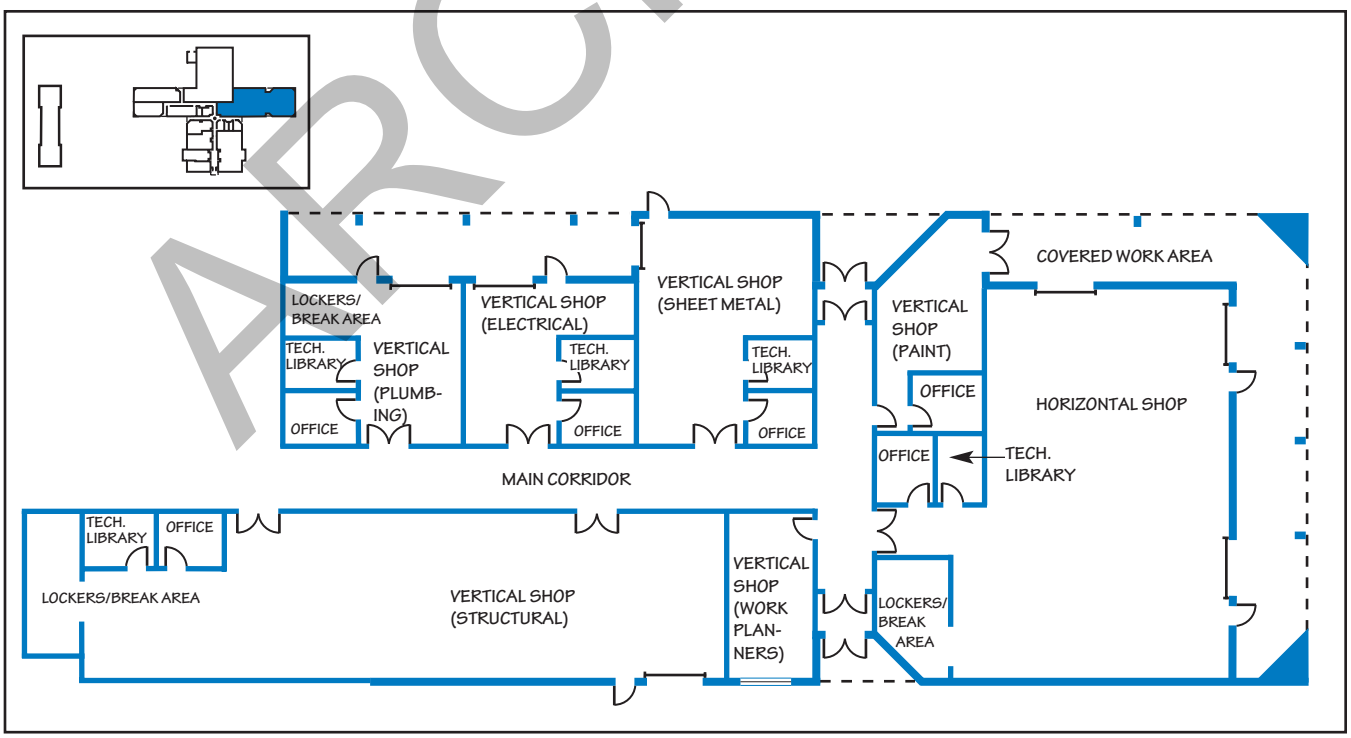


Figure 3-H: Heavy Repair Element Concept Floor Plan.

b. Facility maintenance includes the zonal maintenance shops. Shop personnel perform routine facility maintenance and repair. The shops have the following areas:

- Shop supervisor's office
- Customer service area
- Work controller's office
- Work assignment and break area
- Tool and equipment storage
- Areas for structural and locksmith, plumbing, interior electric, and sheet metal
- Interior and exterior storage

Provide a customer service area which has direct access to the shop supervisor's office and the shop.

Zonal maintenance shops outside the complex require additional shop space and support areas (see Figures 3-I and 3-J, page 18).

The shop supervisor's office should have a window to the shop for supervision.

Shops should have adequate clearances around equipment.

Provide a professional, interactive environment in the customer service area.

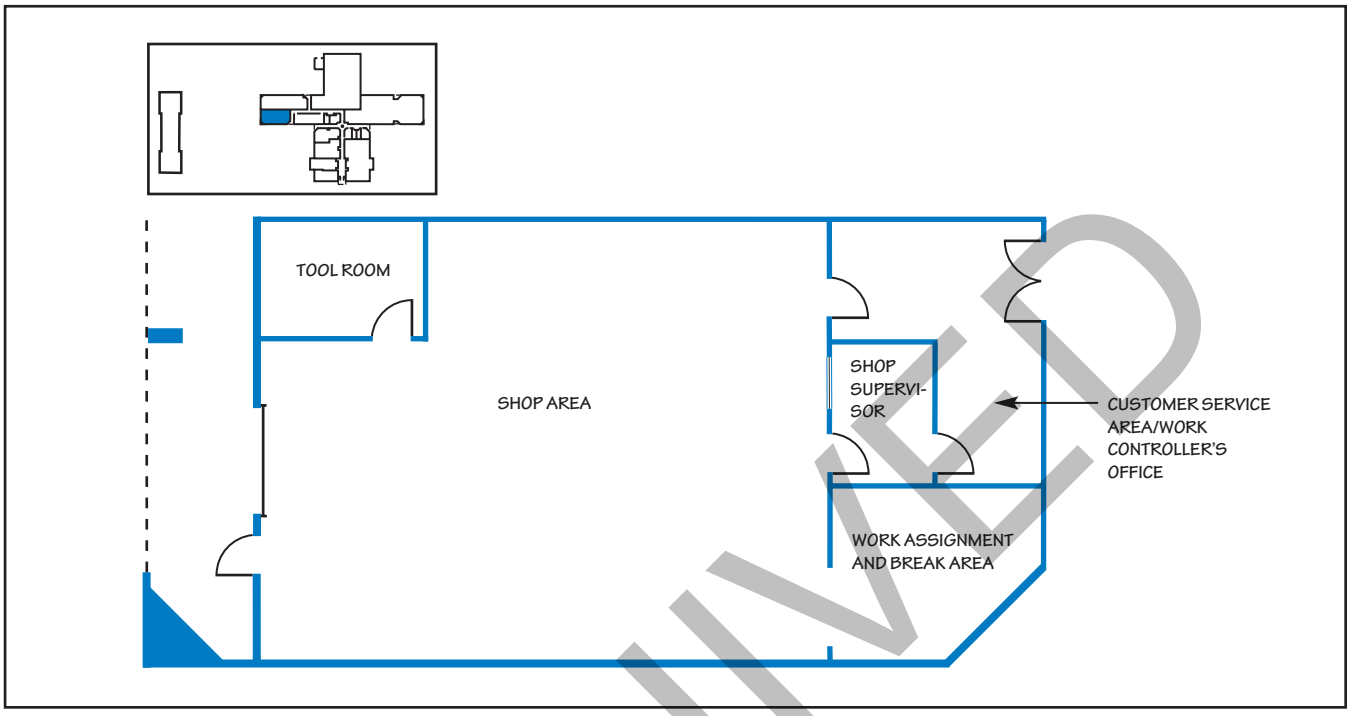


Figure 3-I: Zonal Maintenance Shop Concept Floor Plan.

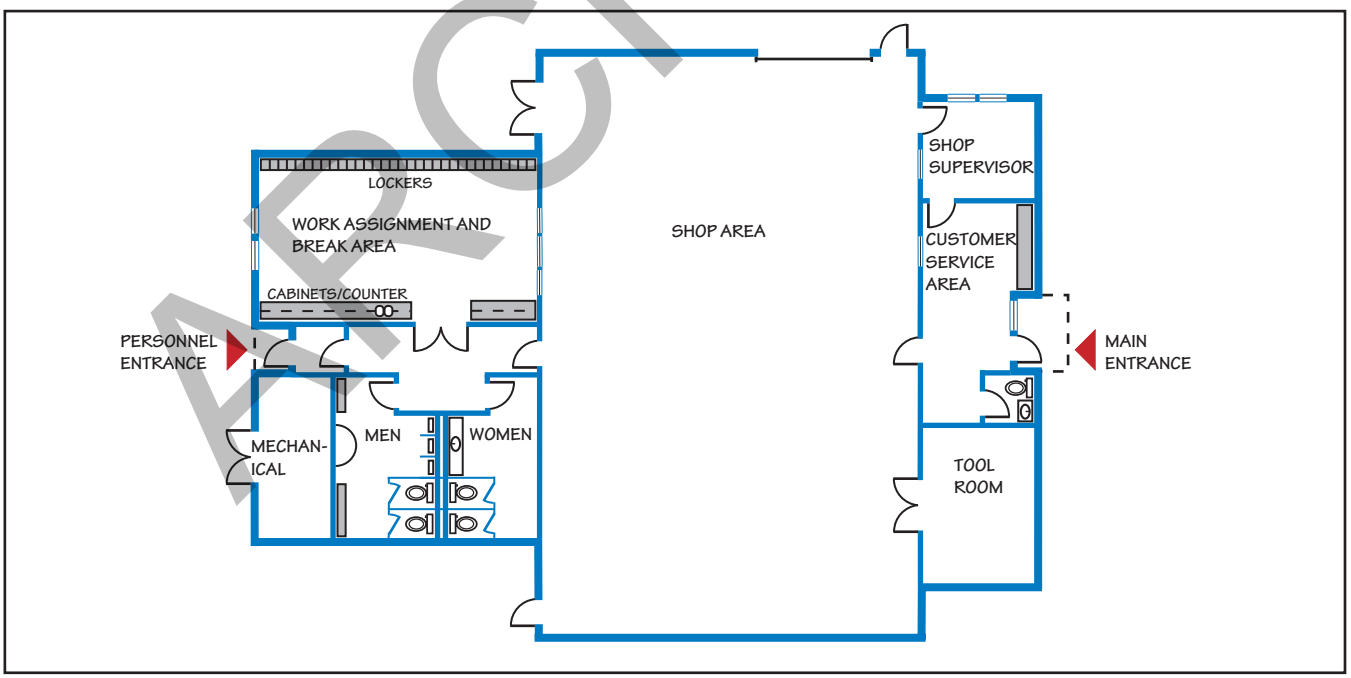


Figure 3-J: Typical Zonal Maintenance Shop Concept Floor Plan (Outside the CE Complex).

c. The Infrastructure Element monitors and maintains the base's utility distribution systems from the following shops, some of which may not be in the CE complex:

- Electric distribution
- Power production
- Energy management and control systems (EMCS), if applicable
- Utility plants (heat, water and waste water treatment, and power), if applicable
- Liquid fuels

These shops require indoor and outdoor storage areas for specialized vehicles, large equipment, and materials (transformers, piping, etc.). Consider environmental hazard prevention, such as oil/water separators and fume ventilators, at all working and storage areas. Include additional indoor work space for bases which experience frequent periods of inclement weather.

EMCS monitors energy consumption in critical base facilities. After-hours monitoring is done from the squadron's 24-hour emergency service center. Provide an environmentally clean room with raised flooring and dedicated power for the EMCS computer equipment.

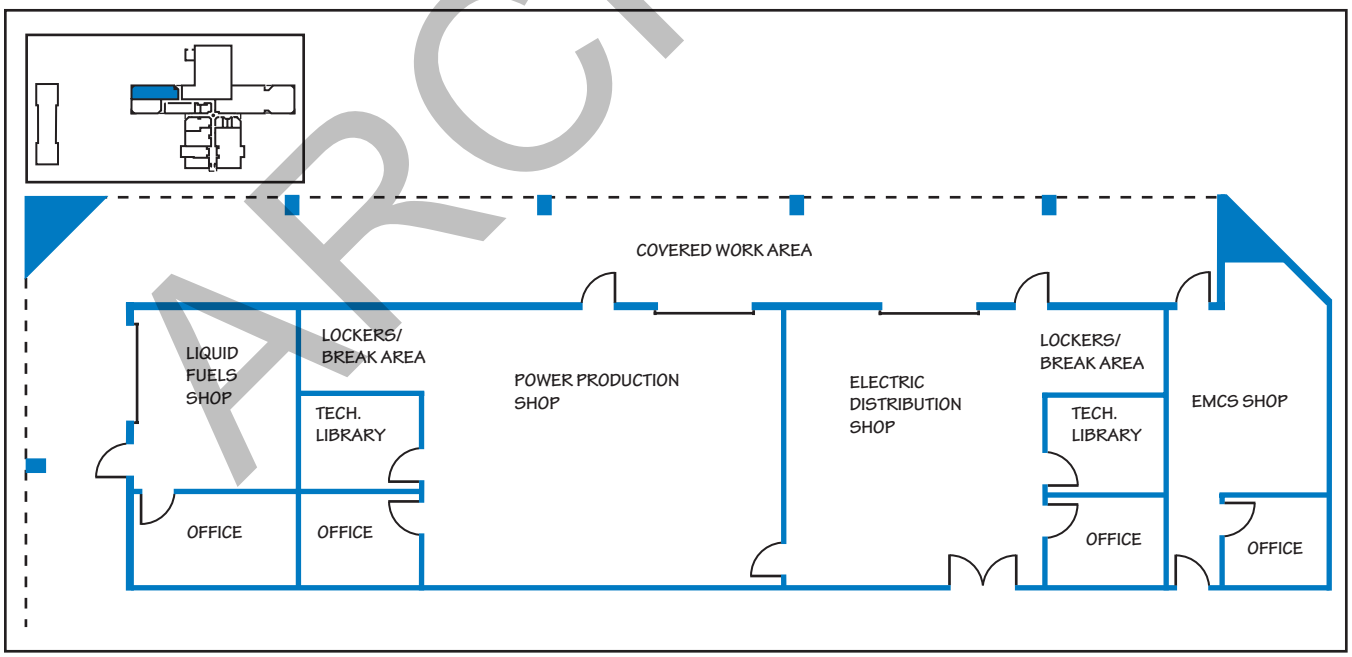


Figure 3-K: Infrastructure Element Concept Floor Plan.

d. Logistics Management maintains and controls the material resources and vehicles used by the squadron. Centrally locate this element within the shop/warehouse areas for ease of access to materiel.

Functional areas include:

- Supervisor's office
- Vehicle control officer's office
- Material control section
- Stock storage area
- Government Operated Civil Engineer Supply Store (GOCESS)/Contractor Operated Civil Engineer Supply Store (COCESS)

Provide modular and high density shelves to maximize storage capacity. Include a lift to retrieve supplies from high shelves.

Provide modular shelves for supplies in the stock storage area.

Use high density shelves to store small parts in efficient compartments.

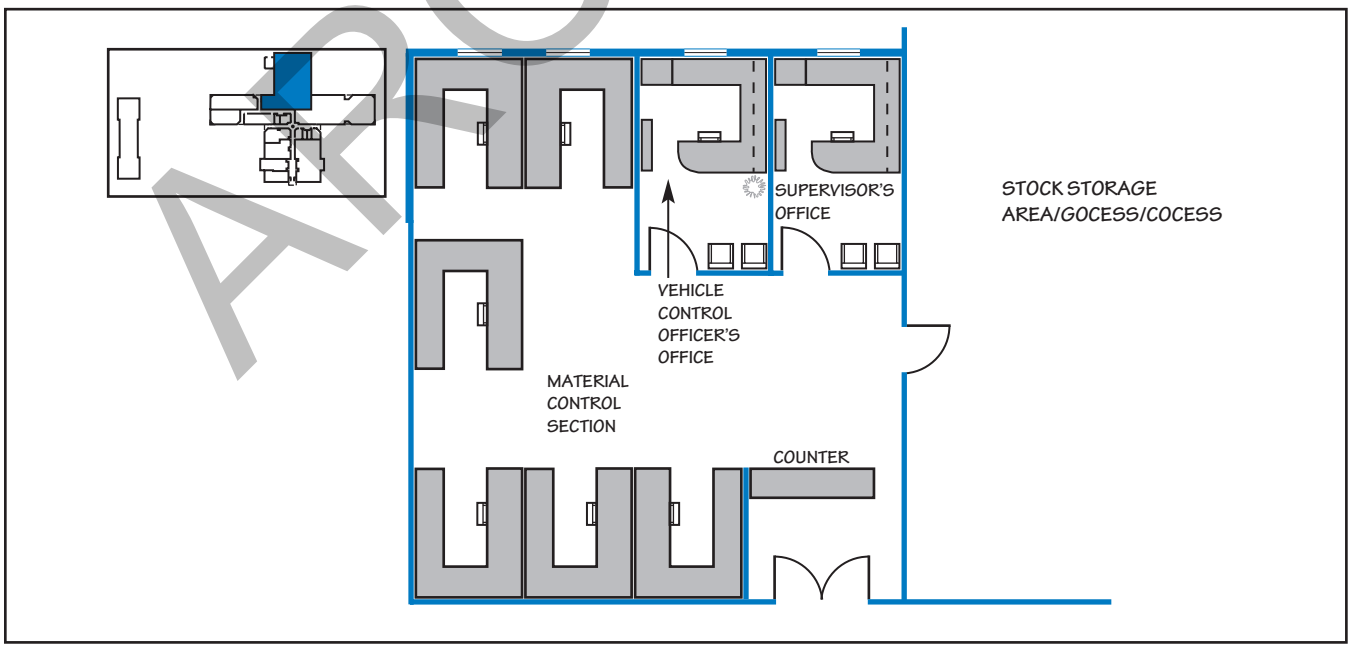


Figure 3-L: Logistics Management Element Concept Floor Plan.

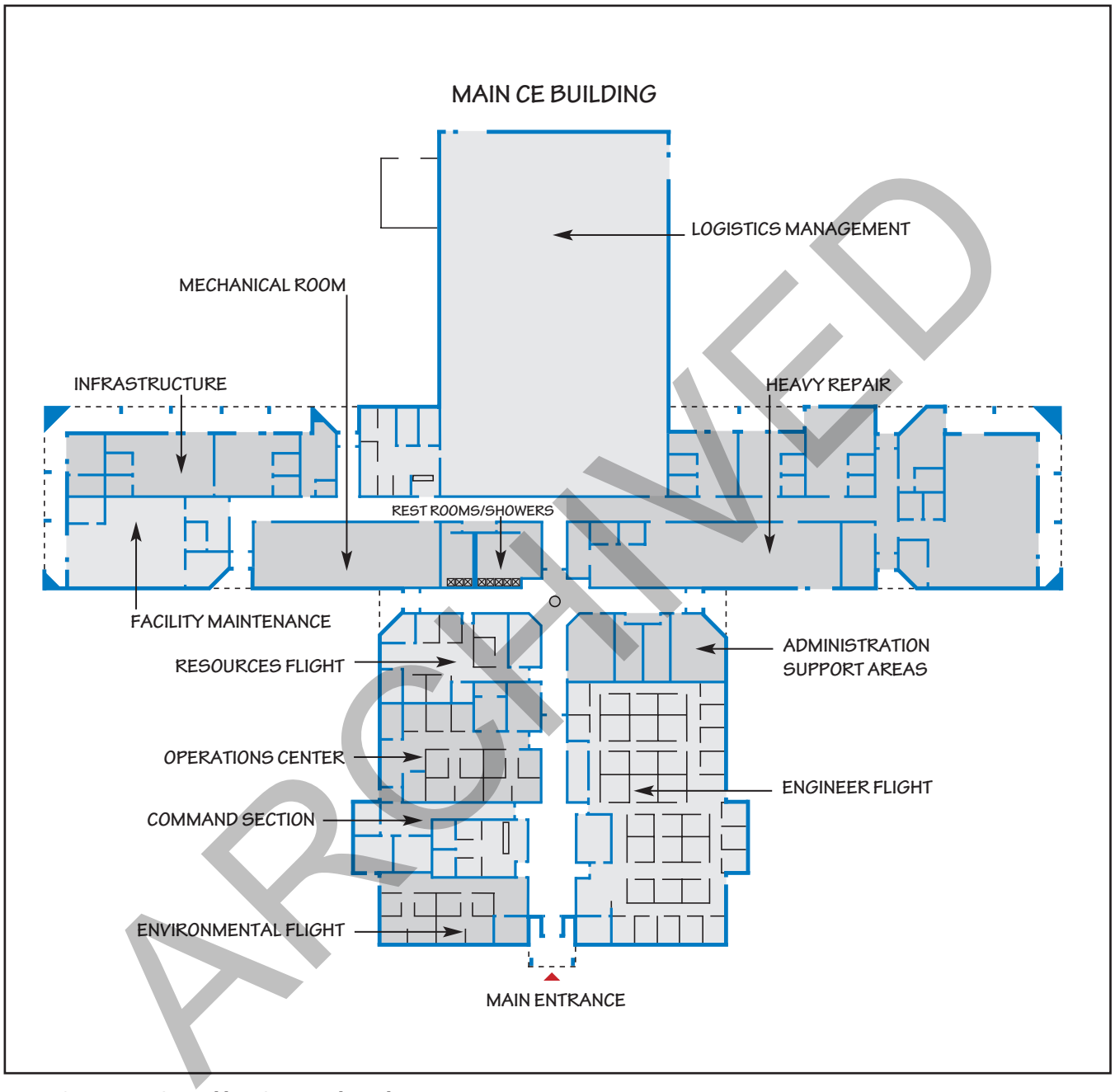


Figure 3-M: Main CE Building Concept Floor Plan.

2. Readiness Flight

The Readiness Flight ensures the squadron is prepared to meet any peacetime or wartime contingency. This includes the following training:

- Disaster preparedness
- Prime Base Engineer Emergency Force (BEEF)
- Air base operability
- Hazardous material

Readiness personnel interact daily with squadron and base personnel. They operate and maintain the squadron damage control center in the main CE building and a nuclear, biological, and chemical (NBC) control center in the readiness facility. They also operate the gas mask confidence facility.

The readiness facility should have adequate space for administration offices, training classrooms, and storage. The training NCO's office may also be in this facility. This manager is responsible for all skill level upgrade and professional development training.

Provide offices for the following:

- Flight Chief
- Training NCO
- Readiness operations
- Readiness training
- Logistics

Provide storage space for the following:

- Chemical warfare training equipment
- Mobile command post
- Disaster preparedness equipment
- Prime BEEF equipment sets, tool boxes, and mobility bags

The training classrooms should have space for seating and several computer work stations for skill level upgrade training.

Equip rest rooms with showers and provide access from the outside demonstration area and gas mask confidence facility.

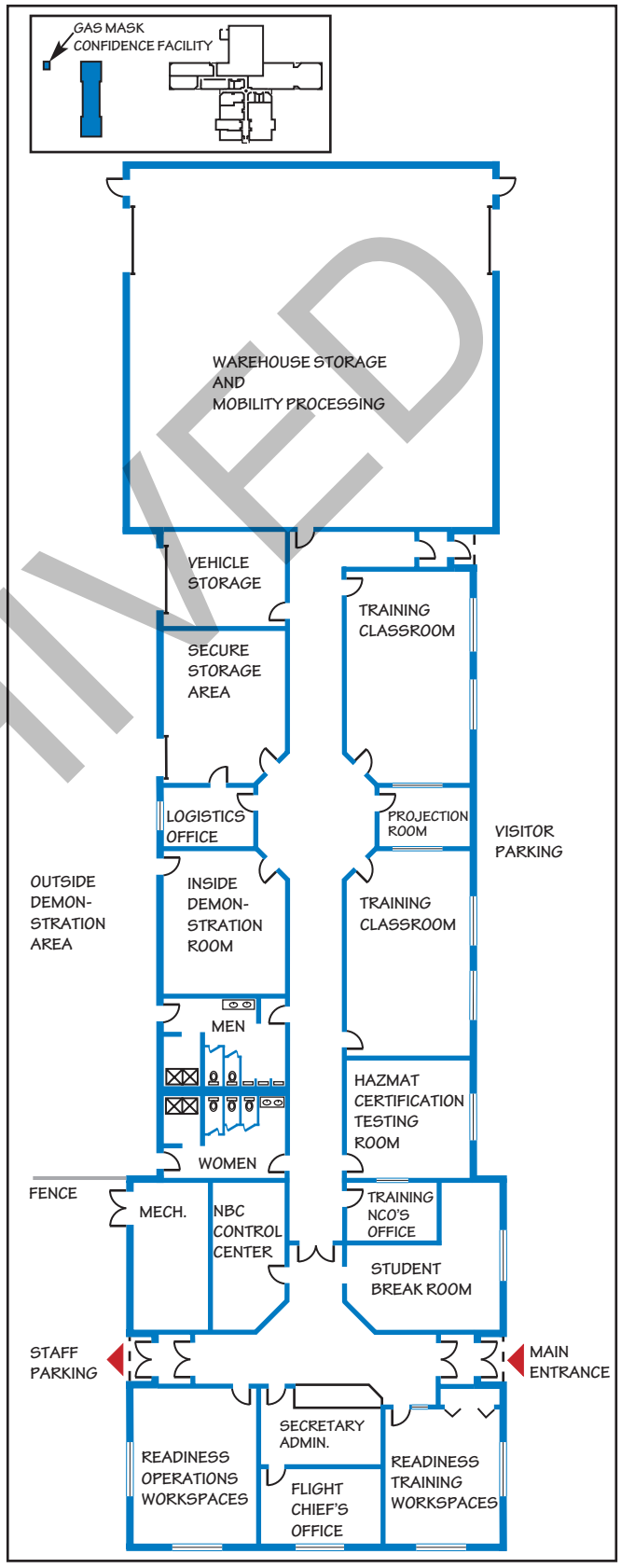


Figure 3-N: Readiness Flight Concept Floor Plan.

D. Remote Facilities

1. Explosive Ordnance Disposal Flight

This flight is responsible for protecting people and resources from the effects of weapons, weapon components, and other hazardous components and devices. This includes storing hazardous materials.

The Explosive Ordnance Disposal (EOD) Flight primarily interacts with others within the squadron for ordnance recognition training. This training is most effective on an outdoor training site. They also provide classroom and practical training to numerous federal and state agencies in bomb search and neutralization procedures. Some base missions do not require an EOD flight. Other bases may be augmented by Air Force Reserve or Air National Guard EOD units. In these cases, every effort should be made to collocate these units with the active duty forces.

Locate this flight away from the CE complex, but near the outdoor training area. The EOD facility should include the following areas:

- Flight chief's office
- EOD staff's workspaces
- Reception/dispatch desk with radio base station
- Training room
- Physical fitness room
- Maintenance and secure storage area
- Vehicle storage bays
- Primary weapons vault

The open office area includes technical orders, operations, supply, and training offices. Training includes hands-on access to models of explosive ordnance. Store these models in display cabinets.

- Equip rest rooms with showers.
- Isolate the outdoor training area from populated areas and weapons storage areas of the base.

Provide an outdoor area for on-site ordnance recognition training.

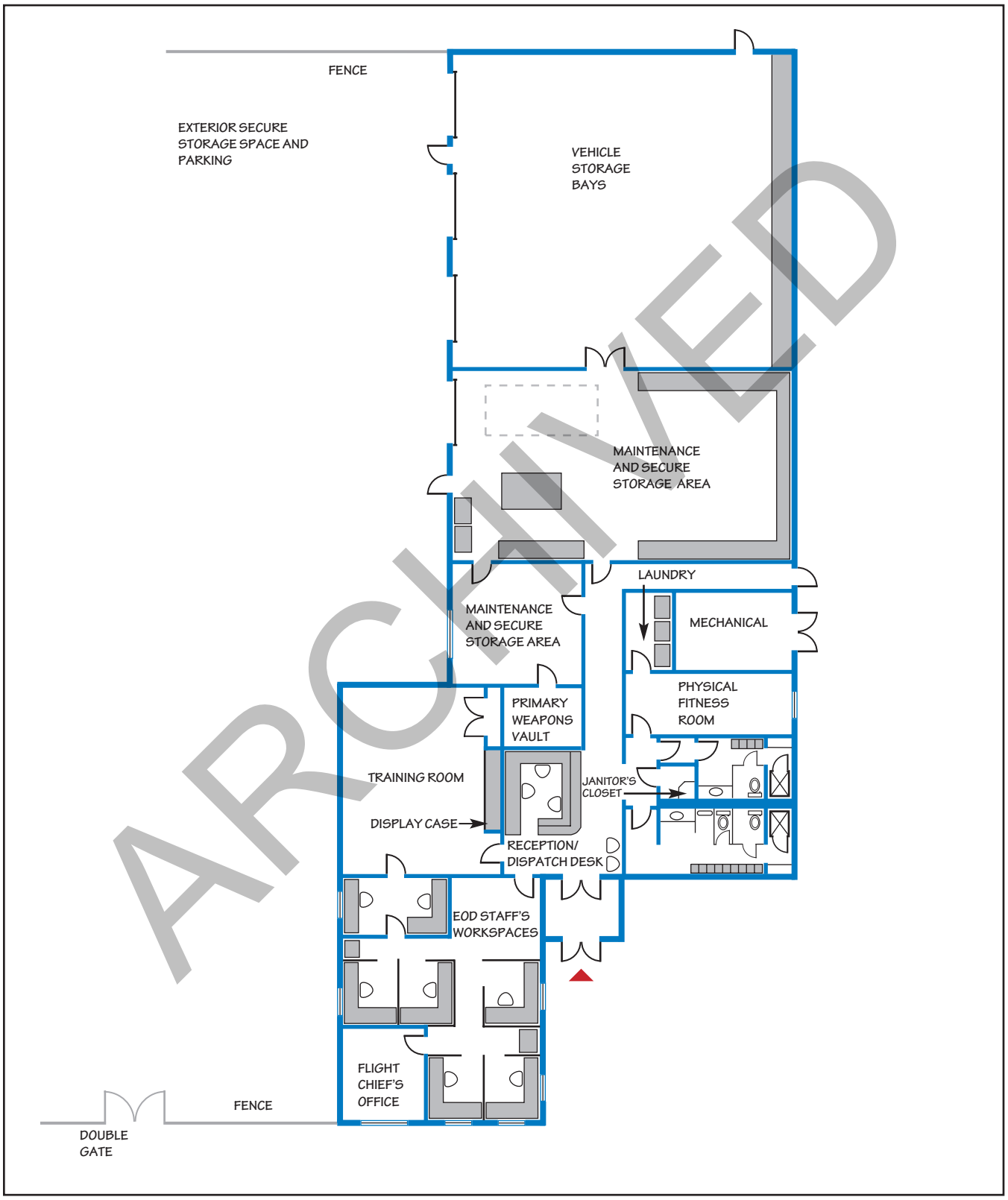


Figure 3-O: EOD Flight Concept Floor Plan.

- Provide exterior covered storage areas.
- Include outdoor and indoor parking for special EOD vehicles.
- Incorporate a weapons vault with an integral security system that can contract base security in case of unauthorized intrusion.
- Provide a communications system for paging.
- Include an electric door lock at the main entrance to control visitor access to the facility and its explosive supplies.
- Provide a temperature and humidity controlled space for vehicle and equipment maintenance areas.

2. Entomology Facility

Isolate this facility from congested areas of the base and design it to protect human health as well as the air, water, and soil.

Provide an eye wash station in the mixing room, showers in the rest rooms, and laundry facilities. Include ample storage for personal protective equipment, emergency supplies, and spill clean-up equipment. Insecticide and herbicide storage areas should have containment curbs so chemicals don't spill into other rooms. The facility should include provisions to collect, store, and recycle rinsewater.

The training room should include a television, table space, and a display area for explosive ordnance models.

The reception/dispatch desk is the central point of contact for visitors.

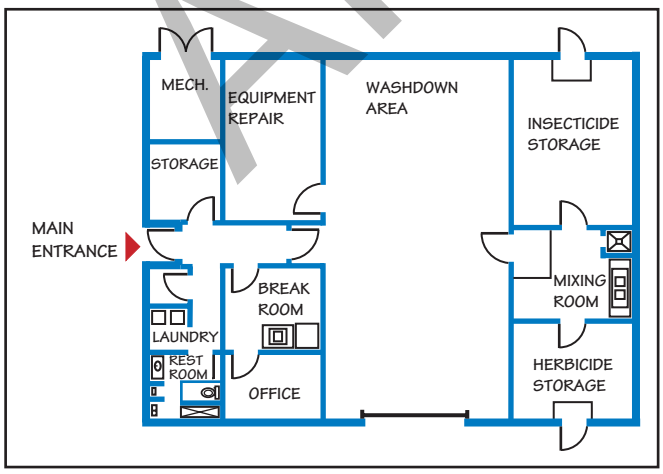


Figure 3-P Entomology Facility Concept Floor Plan.

Entomology facilities require vented exhaust hoods in the mixing room.

Functional Space Requirements for the Main CE Building (Typical AF Objective CE Squadron of 350 People)

Functions	Square Footage	Square Meters[1]
Administration Area		
Command Section		
Squadron Commander's Office	200	19
Deputy Base Civil Engineer's Office	150	14
Squadron Section Commander's Office	120	11
First Sergeant's Office	120	11
Secretary/Administration[2]	240	22
Orderly Room[3]	360	33
Conference Room (12 - 15 people)	225	21
Engineer Flight		
Flight Chief's Office	150	14
Secretary/Administration	120	11
Programmers' Workspaces[4]	480	45
Design Engineers'/Engineer Assistants' Workspaces[5]	1,800	167
Construction Management's Workspaces[6]	1,560	145
SABER Workspaces[3]	360	33
Conference Room (12 - 15 people)	225	21
Environmental Flight		
Flight Chief's Office	150	14
Secretary/Administration	120	11
Environmental Program Managers' Workspaces[7]	960	89
Operations Center		
Flight Chief's Office	150	14
Deputy Flight Chief's Office	120	11
Secretary/Administration	120	11
Facility Maintenance Superintendent's Office	120	11
Infrastructure Superintendent's Office	120	11
Heavy Repair Superintendent's Office	120	11
Maintenance Engineering's Workspaces[7]	960	89
Vault/Storage Room	300	28
Damage Control Center	300	28
Resources Flight		
Flight Chief's Office	150	14
Secretary/Administration	120	11
Real Estate Management's Workspaces[2]	240	22
Information Systems Management's Workspaces[2]	240	22
Financial Management's Workspaces[2]	240	22

Table 3-A: Functional Space Requirements for the Main CE Building.

Functional Space Requirements for the Main CE Building (Continued)

Functions	Square Footage	Square Meters(1)
Resources Flight (Continued)		
Working Area	120	11
File Storage Room	100	9
Computer Room	250	23
Administration Support Areas		
Break Areas	200	19
Copy Machine Rooms	100	9
Rest Rooms	500	47
Janitor's Closet	50	5
Main Conference Room (30-35 people)	525	49
Shop/Warehouse Areas		
Operations Flight		
Heavy Repair Shop		
Vertical Shop(8)	9,500	883
Horizontal Shop(8)	4,000	372
Facility Maintenance		
Facility Maintenance Shop(8)	3,000	279
Customer Service/Work Controller's Office	150	14
Infrastructure Element		
Electric Distribution Shop(8)	1,200	112
EMCS Shop(8)	300	28
Power Production Shop(8)	1,500	139
Liquid Fuels Shop(8)	400	37
Logistics Management		
Material Control Section	1,180	110
Stock Storage Area/GOCESS/COCESS	16,000	1,487
Vehicle Control Officer's Office	120	11
Support Areas		
Mechanical Rooms	2,500	232
Rest Rooms (with showers)	750	70
Subtotal	53,085	4,932
Circulation and Walls (15%)	7,963	740
Gross Total	**61,048**	**5,672**

Table 3-A Continued: Functional Space Requirements for the Main CE Building.

Legend for Table 3-A.

(1) Square Meters = .0929 x Square Footage (All measurements are rounded.)

(2) Two people at 120 square feet each. (3) Three people at 120 square feet each. (4) Four people at 120 square feet each. (5) Fifteen people at 120 square feet each.

(6) Thirteen people at 120 square feet each. (7) Eight people at 120 square feet each. (8) These are average shop sizes. Each squadron should adjust these sizes based on local requirements.

Functional Space Requirements for the Readiness Flight, EOD Flight, and Entomology Facility

Functions	Square Footage	Square Meters(1)
Readiness Flight		
Flight Chief's Office	150	14
Secretary/Administration	120	11
Readiness Staff's Workspaces(2)	1,200	111
Training NCO's Office	120	11
Logistics Office	120	11
HAZMAT Certification Testing Room (12-15 people)	400	37
Training Classrooms(3)	1,400	130
Projection Room	120	11
Inside Demonstration Room	500	47
Student Break Room	400	37
Secure Storage Area	500	47
NBC Control Center	300	28
Vehicle Storage	300	28
Warehouse Storage and Mobility Processing(4)	5,000	464
Rest Rooms	300	28
Mechanical Room	400	37
Subtotal	**11,330**	**1,052**
Circulation and Walls (15%)	1,700	158
Gross Total for Readiness Flight	**13,030**	**1,210**
EOD Flight		
Flight Chief's Office	150	14
EOD Staff's Workspaces(2)	1,200	111
Training Room	450	42
Physical Fitness Room	250	23
Maintenance and Secure Storage Area	1,900	176
Vehicle Storage Bays	2,460	229
Primary Weapons Vault	150	14
Laundry	75	7
Rest Rooms	300	28
Janitor's Closet	25	2
Mechanical Room	300	28
Subtotal	**7,260**	**674**
Circulation and Walls (15%)	1,089	101
Gross Total for EOD Flight	**8,349**	**775**
Gross Total for Entomology Facility(5)	**1,800**	**167**

Table 3-B: Functional Space Requirements for the Readiness Flight, EOD Flight, and Entomology Facility.

Legend for Table 3-B.
(1) Square Meters = .0929 x Square Footage (All measurements are rounded.) (2) Ten people at 120 square feet each.
(3) Two classrooms at 700 square feet each. (4) Sizing may vary depending on local storage or mobility processing requirements.
(5) This is an average facility size. Each squadron should adjust the size based on local requirements.

Chapter 4

Interior Standards

A. General

CE squadron facilities reflect the AMC standard of "understated excellence" and create an environment where people can provide quality services. Select interior finishes for cost-effectiveness and life cycle maintenance, as well as appearance. Interior finishes that are durable and easy to maintain are essential. Quality interiors provide an environment which improves job performance and customer satisfaction. In this chapter, Tables 4-A through 4-C offer guidance for finishing, furnishing, and equipping each functional area.

B. Color Concepts

Designers should give special attention to color selection and provide a timeless color scheme. Use accent colors sparingly to complement a neutral color scheme.

Select a neutral color for carpets, wallcoverings, and systems furniture wall panels. Incorporate accent colors in upholstery, graphics, borders, accessories, and artwork for design scheme consistency.

C. Floor Coverings

Consider patterned carpet tile for high-use areas such as hallways, waiting areas, and training rooms in administration areas. Avoid stripes and linear designs that are hard to line up with walls in corridors, vestibules, or irregularly shaped areas.

- Select neutral colored carpet for offices.
- Use vinyl composition tile in the corridors and break rooms, where cleanup of food and dirt is a daily task.
- Provide ceramic tile in rest rooms.
- Select a sealed concrete finish in warehouse, shop, and storage areas for durability.

D. Wallcoverings

Use vinyl and acoustic wallcovering in all administration areas. Select painted finishes in shop/warehouse areas in the main CE building for ease of maintenance.

E. Ceilings

Use suspended acoustical ceiling tile with a revealed edge finish in all administration areas. A standardized 2' x 2' tile is recommended as the consistent module throughout CE facilities. Shop areas should have an open painted ceiling. A gypsum board ceiling with water-resistant paint works well in rest rooms.

F. Window Coverings

Vertical blinds and miniblinds filter daylight and allow outdoor views. Use lined draperies to block daylight for visual presentations in conference and training rooms.

G. Accessories

Framed artwork, wall murals, and plants complement interior finishes and the design scheme. Choose only professionally framed pictures and paintings with color schemes and images that contribute to the facility's decor. Live plants or professional quality silk plants are optional.

H. Signs

Develop an interior sign plan as part of the comprehensive interior design. Use professionally made signs appropriately sized for the viewing distance and compatible with the design scheme. The main CE building entrance should have signs that clearly direct visitors to specific flights.

I. Systems Furniture

This furniture includes interchangeable wall panels, desk components, and storage modules which combine to form office workspaces. These stations allow for a reconfiguration of office areas when requirements change.

Select systems furniture that easily integrates computer hardware. Systems furniture panels should incorporate integrated conduits for electrical and communications service. Sound absorbent fabric panels will reduce background noise and provide a quiet work area.

Finish work surfaces in plastic laminate or wood. Plastic laminate with a wrapped edge is an easily maintainable finish.

- Use systems furniture in all offices except the squadron commander's, deputy base civil engineer's, and squadron commander's secretary's offices.

J. Lighting

Natural and artificial lighting are important factors in creating a quality interior appearance. Lighting affects the perception of space, as well as the color of interior finishes. Design lighting to enhance the design scheme.

The designer should provide natural and accent lighting in all administration areas. Include task lighting at office desks. Use high-efficiency fluorescent lighting in the shops in lieu of incandescent lighting.

K. Communications

Provide telephone and computer wiring to support fire alarm systems and other equipment listed in the Equipment Schedules (Table 4-C). Equip facilities with the capability for intercom, cable television, Defense Systems Network (DSN), Defense Information Systems Network (DISN), fax lines, on- and off-base lines, and Local Area Network (LAN) connections. The Operations, Readiness, and EOD Flights may require dispatch, STU III secure, and other communications equipment. Locate large antennae away from the main entrances of buildings. The designer should contact the base communications squadron for specific communications requirements before planning major building upgrades or modifications. Incorporate these requirements in building design and modification specifications. ■

Incorporate glass panels into systems furniture wall panels so light can filter throughout open office areas.

	FLOORS								BASE		WALLS			CEILING		
	Carpet	Vinyl Composition Tile	Ceramic Tile	Sealed Concrete	Computer Floor	Vinyl	Ceramic Tile	Wood	Paint	Vinyl Wallcovering	Acoustic Wallcovering	Ceramic Tile	Acoustical Ceiling Tile	Painted Gypsum Board	Painted Exposed	
Administration Area																
Command Section																
Squadron Commander's Office	♦						♦		♦			♦				
Deputy Base Civil Engineer's Office	♦						♦		♦			♦				
Squadron Section Commander's Office	♦					♦			♦			♦				
First Sergeant's Office	♦					♦			♦			♦				
Secretary/Administration	♦						♦		♦			♦				
Orderly Room	♦	♦				♦			♦			♦				
Conference Room	♦						♦		♦			♦				
Engineer Flight																
Flight Chief's Office	♦					♦			♦			♦				
Secretary/Administration	♦					♦			♦			♦				
Programmers' Workspaces	♦					♦			♦			♦				
Design Engineers'/Engineer Assistants' Workspaces	♦					♦			♦			♦				
Construction Management's Workspaces	♦					♦			♦			♦				
SABER Workspaces	♦					♦			♦			♦				
Conference Room	♦					♦			♦			♦				
Environmental Flight																
Flight Chief's Office	♦					♦			♦			♦				
Secretary/Administration	♦					♦			♦			♦				
Environmental Program Managers' Workspaces	♦					♦			♦			♦				
Operations Center																
Flight Chief's Office	♦					♦			♦			♦				
Deputy Flight Chief's Office	♦					♦			♦			♦				
Secretary/Administration	♦					♦			♦			♦				
Facility Maintenance Superintendent's Office		♦				♦			♦			♦				
Infrastructure Superintendent's Office		♦				♦			♦			♦				
Heavy Repair Superintendent's Office		♦				♦			♦			♦				
Maintenance Engineering's Workspaces	♦					♦			♦			♦				
Vault/Storage Room				♦		♦			♦			♦				
Damage Control Center	♦					♦				♦		♦				

Table 4-A: Finish Schedule.

	FLOORS								BASE			WALLS			CEILING		
	Carpet	Vinyl Composition Tile	Ceramic Tile	Sealed Concrete	Computer Floor	Vinyl	Ceramic Tile	Wood	Paint	Vinyl Wallcovering	Acoustic Wallcovering	Ceramic Tile	Acoustical Ceiling Tile	Painted Gypsum Board	Painted Exposed		
Resources Flight																	
Flight Chief's Office	♦					♦				♦			♦				
Secretary/Administration	♦					♦				♦			♦				
Real Estate Management's Workspaces	♦					♦				♦			♦				
Information Systems Management's Workspaces	♦				♦	♦				♦			♦				
Financial Management's Workspaces	♦					♦				♦			♦				
Working Area	♦					♦				♦			♦				
File Storage Room		♦				♦			♦				♦				
Computer Room					♦	♦					♦		♦				
Administration Support Areas																	
Break Areas		♦				♦				♦			♦				
Copy Machine Rooms		♦				♦				♦			♦				
Rest Rooms			♦				♦					♦		♦			
Janitor's Closet				♦		♦			♦				♦				
Main Conference Room	♦					♦				♦			♦				
Shop/Warehouse Areas																	
Operations Flight																	
Heavy Repair Shop																	
Vertical Shop				♦					♦					♦			
Horizontal Shop				♦					♦					♦			
Facility Maintenance																	
Facility Maintenance Shop				♦					♦					♦			
Customer Service/Work Controller's Office		♦				♦				♦			♦				
Infrastructure Support																	
Electric Distribution Shop				♦					♦					♦			
EMCS Shop				♦					♦					♦			
Power Production Shop				♦					♦					♦			
Liquid Fuels Shop				♦					♦					♦			
Logistics Management																	
Material Control Section		♦				♦				♦				♦			
Stock Storage Area/GOCESS/COCESS				♦					♦							♦	
Vehicle Control Officer's Office		♦				♦				♦				♦			
Support Areas																	
Rest Rooms			♦				♦					♦		♦			
Mechanical Rooms				♦					♦							♦	

Table 4-A Continued: Finish Schedule.

	FLOORS								BASE			WALLS			CEILING	
	Carpet	Vinyl Composition Tile	Ceramic Tile	Sealed Concrete	Computer Floor	Vinyl	Ceramic Tile	Wood	Paint	Vinyl Wallcovering	Acoustic Wallcovering	Ceramic Tile	Acoustical Ceiling Tile	Painted Gypsum Board	Painted Exposed
Readiness Flight															
Flight Chief's Office	♦					♦			♦			♦			
Secretary/Administration	♦					♦			♦			♦			
Readiness Staff's Workspaces	♦					♦			♦			♦			
Training NCO's Office	♦					♦			♦			♦			
Logistics Office	♦					♦			♦			♦			
HAZMAT Certification Testing Room	♦					♦			♦			♦			
Training Classrooms	♦					♦				♦		♦			
Projection Room	♦					♦				♦		♦			
Inside Demonstration Room		♦				♦		♦				♦			
Student Break Room		♦				♦			♦			♦			
Secure Storage Area				♦		♦		♦					♦		
NBC Control Center	♦					♦				♦		♦			
Vehicle Storage				♦		♦		♦							♦
Warehouse Storage and Mobility Processing				♦				♦							♦
Rest Rooms			♦				♦				♦		♦		
Mechanical Room				♦		♦		♦							♦
Remote Facilities															
EOD Flight															
Flight Chief's Office	♦					♦			♦			♦			
EOD Staff's Workspaces	♦					♦			♦			♦			
Training Room	♦					♦				♦		♦			
Physical Fitness Room		♦				♦		♦				♦			
Maintenance and Secure Storage Area				♦		♦		♦					♦		
Vehicle Storage Bays				♦		♦		♦							♦
Primary Weapons Vault		♦				♦		♦					♦		
Laundry		♦				♦		♦				♦			
Rest Rooms			♦				♦				♦		♦		
Janitor's Closet				♦		♦		♦				♦			
Mechanical Room				♦		♦		♦							♦

Table 4-A Continued: Finish Schedule.

	Bookcase(s)	Bulletin Board	Chair(s)	Coat Rack	Counter, Reception	Counter, Refreshment	Credenza	Desk(s) (Workstations)	Display Case, Glass	Drafting Table	File Cabinet(s), 2, or 5 drawer	Mirror, Full Size	Podium	Shelf, Storage	Sofa(s)	Storage Cabinet	Table, Conference	Table(s), End	Table(s), Folding	Whiteboard	Work Bench
Administration Area																					
Command Section																					
Squadron Commander's Office	♦		♦	♦			♦	♦	♦		♦			♦	♦		♦	♦			
Deputy Base Civil Engineer's Office	♦		♦	♦			♦	♦			♦			♦							
Squadron Section Commander's Office	♦		♦	♦			♦	♦			♦			♦							
First Sergeant's Office	♦		♦	♦			♦	♦			♦			♦							
Secretary/Administration	♦	♦	♦	♦			♦	♦			♦			♦	♦			♦			
Orderly Room	♦	♦	♦	♦	♦			♦			♦	♦		♦						♦	
Conference Room			♦	♦		♦							♦				♦			♦	
Engineer Flight																					
Flight Chief's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Secretary/Administration	♦	♦	♦	♦				♦			♦			♦		♦					
Programmers' Workspaces	♦		♦	♦				♦			♦			♦		♦				♦	
Design Engineers'/Engineer Assistants' Workspaces	♦		♦	♦				♦		♦	♦			♦		♦				♦	
Construction Management's Workspaces	♦		♦	♦				♦		♦	♦			♦		♦				♦	
SABER Workspaces	♦		♦	♦				♦		♦	♦			♦		♦				♦	
Conference Room			♦	♦		♦							♦					♦		♦	
Environmental Flight																					
Flight Chief's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Secretary/Administration	♦	♦	♦	♦				♦			♦			♦		♦					
Environmental Program Managers' Workspaces	♦		♦	♦				♦			♦			♦		♦				♦	
Operations Center																					
Flight Chief's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Deputy Flight Chief's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Secretary/Administration	♦	♦	♦	♦				♦			♦			♦		♦					
Facility Maintenance Superintendent's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Infrastructure Superintendent's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Heavy Repair Superintendent's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Maintenance Engineering's Workspaces	♦		♦	♦				♦			♦			♦		♦				♦	
Vault/Storage Room			♦							♦	♦			♦		♦					
Damage Control Center	♦		♦	♦							♦					♦				♦	

Table 4-B: Furnishings Schedule.

	Bookcase(s)	Bulletin Board	Chair(s)	Coat Rack	Counter, Reception	Counter, Refreshment	Credenza	Desk(s) (Workstations)	Display Case, Glass	Drafting Table	File Cabinet(s), 2, or 5 drawer	Mirror, Full Size	Podium	Shelf, Storage	Sofa(s)	Storage Cabinet	Table, Conference	Table(s), End	Table(s), Folding	Whiteboard	Work Bench
Resources Flight																					
Flight Chief's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Secretary/Administration	♦	♦	♦	♦				♦			♦			♦		♦					
Real Estate Management's Workspaces	♦		♦	♦				♦			♦			♦		♦				♦	
Information Systems Management's Workspaces	♦		♦	♦				♦			♦			♦		♦				♦	
Financial Management's Workspaces	♦		♦	♦				♦			♦			♦		♦				♦	
Working Area			♦					♦			♦			♦							
File Storage Room											♦										
Computer Room								♦			♦					♦					
Administration Support Areas																					
Break Areas		♦	♦	♦		♦								♦	♦				♦	♦	
Copy Machine Rooms														♦		♦			♦		
Rest Rooms														♦							
Janitor's Closet														♦		♦					
Main Conference Room			♦	♦		♦							♦					♦			
Shop/Warehouse Areas																					
Operations Flight																					
Heavy Repair Shop																					
Vertical Shop	♦	♦	♦	♦		♦		♦		♦	♦	♦		♦		♦			♦	♦	♦
Horizontal Shop	♦	♦	♦	♦		♦		♦		♦	♦	♦		♦		♦			♦	♦	♦
Facility Maintenance																					
Facility Maintenance Shop	♦	♦	♦	♦		♦		♦		♦	♦	♦		♦		♦			♦	♦	♦
Customer Service/Work Controller's Office	♦		♦	♦	♦			♦			♦	♦		♦	♦	♦		♦			
Infrastructure Support																					
Electric Distribution Shop	♦	♦	♦	♦		♦		♦		♦	♦	♦		♦		♦			♦	♦	♦
EMCS Shop	♦	♦	♦	♦		♦		♦		♦	♦	♦		♦		♦			♦	♦	♦
Power Production Shop	♦	♦	♦	♦		♦		♦		♦	♦	♦		♦		♦			♦	♦	♦
Liquid Fuels Shop	♦	♦	♦	♦		♦		♦		♦	♦	♦		♦		♦			♦	♦	♦
Logistics Management																					
Material Control Section	♦	♦	♦	♦	♦			♦			♦			♦		♦				♦	
Stock Storage Area/GOCESS/COCESS														♦		♦					
Vehicle Control Officer's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Support Areas																					
Rest Rooms(1)																					
Mechanical Rooms(1)																					

Table 4-B Continued: Furnishings Schedule.

Legend for Table 4-B Continued. (1) This room does not require furnishings.

	Bookcase(s)	Bulletin Board	Chair(s)	Coat Rack	Counter, Reception	Counter, Refreshment	Credenza	Desk(s) (Workstations)	Display Case, Glass	Drafting Table	File Cabinet(s), 2, or 5 drawer	Mirror, Full Size	Podium	Shelf, Storage	Sofa(s)	Storage Cabinet	Table, Conference	Table(s), End	Table(s), Folding	Whiteboard	Work Bench
Readiness Flight																					
Flight Chief's Office	♦		♦	♦			♦	♦			♦			♦		♦				♦	
Secretary/Administration	♦	♦	♦	♦				♦			♦			♦		♦					
Readiness Staff's Workspaces	♦		♦	♦				♦			♦			♦		♦				♦	
Training NCO's Office	♦		♦	♦				♦			♦			♦		♦				♦	
Logistics Office	♦		♦	♦				♦			♦			♦		♦				♦	
HAZMAT Certification Testing Room	♦		♦	♦				♦			♦			♦		♦				♦	
Training Classrooms	♦		♦	♦					♦				♦	♦		♦			♦	♦	
Projection Room			♦													♦		♦			
Inside Demonstration Room			♦									♦				♦				♦	
Student Break Room			♦	♦		♦									♦				♦	♦	
Secure Storage Area															♦						
NBC Control Center	♦		♦	♦				♦			♦			♦		♦				♦	
Vehicle Storage(1)																					
Warehouse Storage and Mobility Processing														♦		♦					
Rest Rooms(1)																					
Mechanical Room(1)																					
Remote Facilities																					
EOD Flight																					
Flight Chief's Office	♦		♦	♦				♦	♦		♦			♦		♦				♦	
EOD Staff's Workspaces	♦		♦	♦				♦			♦			♦		♦				♦	
Training Room	♦	♦	♦	♦					♦			♦	♦		♦	♦		♦	♦		
Physical Fitness Room(1)																					
Maintenance and Secure Storage Area													♦		♦						♦
Vehicle Storage Bays																					♦
Primary Weapons Vault															♦						
Laundry													♦								
Rest Rooms(1)																					
Janitor's Closet													♦		♦						
Mechanical Room(1)																					

Table 4-B Continued: Furnishings Schedule.

Legend for Table 4-B Continued. (1) This room does not require furnishings.

	Arms Vault Cabinet	Audio System	Blueprint Machine	CADD/CAM	Computer(s) with Modem(s)	Computer File Server	Copier	Dispatch System	Fax	High Density Shelving	Lockers	Overhead Crane	Plotters	Printer	Screen, Projector	Screen, Rear Projection	Security System	Telephone(s)	Television	Vending Machines
Administration Area																				
Command Section																				
Squadron Commander's Office				♦								♦				♦	♦			
Deputy Base Civil Engineer's Office				♦												♦				
Squadron Section Commander's Office				♦												♦				
First Sergeant's Office				♦												♦				
Secretary/Administration				♦		♦		♦				♦				♦				
Orderly Room				♦		♦		♦				♦				♦				
Conference Room													♦	♦		♦	♦			
Engineer Flight																				
Flight Chief's Office				♦								♦				♦				
Secretary/Administration				♦		♦		♦				♦				♦				
Programmers' Workspaces			♦	♦								♦				♦				
Design Engineers'/Engineer Assistants' Workspaces		♦	♦	♦		♦		♦	♦			♦	♦			♦				
Construction Management's Workspaces			♦	♦									♦			♦				
SABER Workspaces			♦	♦									♦			♦				
Conference Room														♦		♦	♦			
Environmental Flight																				
Flight Chief's Office				♦								♦				♦				
Secretary/Administration				♦		♦		♦				♦				♦				
Environmental Program Managers' Workspaces				♦												♦				
Operations Center																				
Flight Chief's Office				♦								♦				♦				
Deputy Flight Chief's Office				♦												♦				
Secretary/Administration				♦		♦		♦				♦				♦				
Facility Maintenance Superintendent's Office				♦												♦				
Infrastructure Superintendent's Office				♦												♦				
Heavy Repair Superintendent's Office				♦												♦				
Maintenance Engineering's Workspaces				♦												♦				
Vault/Storage Room			♦												♦					
Damage Control Center				♦			♦	♦				♦				♦				

Table 4-C: Equipment Schedule.

	Arms Vault Cabinet	Audio System	Blueprint Machine	CADD/CAM	Computer(s) with Modem(s)	Computer File Server	Copier	Dispatch System	Fax	High Density Shelving	Lockers	Overhead Crane	Plotters	Printer	Screen Projector	Screen, Rear Projection	Security System	Telephone(s)	Television	Vending Machines
Resources Flight																				
Flight Chief's Office				♦				♦								♦				
Secretary/Administration				♦		♦		♦					♦			♦				
Real Estate Management's Workspaces				♦									♦			♦				
Information Systems Management's Workspaces				♦									♦			♦				
Financial Management's Workspaces				♦		♦		♦					♦			♦				
Working Area				♦												♦				
File Storage Room(1)																				
Computer Room				♦	♦								♦			♦				
Administration Support Areas																				
Break Areas		♦																		♦
Copy Machine Rooms						♦														
Rest Rooms(1)																				
Janitor's Closet(1)																				
Main Conference Room														♦	♦		♦	♦		
Shop/Warehouse Areas																				
Operations Flight																				
Heavy Repair Shop																				
Vertical Shop		♦			♦		♦	♦			♦	♦		♦			♦	♦		
Horizontal Shop		♦			♦		♦	♦			♦	♦		♦			♦	♦		
Facility Maintenance																				
Facility Maintenance Shop		♦			♦		♦	♦			♦	♦		♦			♦	♦		
Customer Service/Work Controller's Office		♦			♦		♦	♦	♦					♦			♦	♦		
Infrastructure Support																				
Electric Distribution Shop		♦			♦			♦						♦			♦	♦		
EMCS Shop		♦			♦			♦						♦			♦	♦		
Power Production Shop		♦			♦			♦						♦			♦	♦		
Liquid Fuels Shop		♦			♦			♦						♦			♦	♦		
Logistics Management																				
Material Control Section					♦		♦	♦						♦			♦	♦		
Stock Storage Area/GOCESS/COCESS		♦								♦							♦			
Vehicle Control Officer's Office					♦			♦										♦		
Support Areas																				
Rest Rooms(1)																				
Mechanical Rooms(1)																				

Table 4-C Continued: Equipment Schedule.

Legend for Table 4-C Continued. (1) This room does not require equipment.

	Arms Vault Cabinet	Audio System	Blueprint Machine	CADD/CAM	Computer(s) with Modem(s)	Computer File Server	Copier	Dispatch System	Fax	High Density Shelving	Lockers	Overhead Crane	Plotters	Printer	Screen Projector	Screen, Rear Projection	Security System	Telephone(s)	Television	Vending Machines
Readiness Flight																				
Flight Chief's Office		♦			♦												♦			
Secretary/Administration		♦			♦		♦	♦	♦				♦			♦	♦			
Readiness Staff's Workspaces		♦			♦												♦			
Training NCO's Office		♦			♦												♦			
Logistics Office		♦			♦												♦			
HAZMAT Certification Testing Room		♦			♦												♦			
Training Classrooms		♦													♦		♦	♦		
Projection Room		♦			♦									♦						
Inside Demonstration Room		♦															♦			
Student Break Room		♦																		♦
Secure Storage Area	♦	♦							♦							♦				
NBC Control Center		♦			♦		♦	♦					♦			♦	♦			
Vehicle Storage		♦														♦				
Warehouse Storage and Mobility Processing		♦							♦							♦	♦			
Rest Rooms(1)																				
Mechanical Room(1)																				
Remote Facilities																				
EOD Flight																				
Flight Chief's Office		♦			♦											♦	♦			
EOD Staff's Workspaces		♦			♦		♦	♦					♦			♦	♦			
Training Room		♦												♦			♦	♦		
Physical Fitness Room		♦																		
Maintenance and Secure Storage Area		♦							♦							♦	♦			
Vehicle Storage Bays		♦														♦	♦			
Primary Weapons Vault	♦	♦								♦						♦				
Laundry(1)																				
Rest Rooms(1)																				
Janitor's Closet(1)																				
Mechanical Room(1)																				

Table 4-C Continued: Equipment Schedule.

Legend for Table 4-C Continued. (1) This room does not require equipment.

References

AFI 31-209	Air Force Resources Protection Program
AFI 32-1023	Design and Construction Standards and Execution of Facility Construction
AFI 32-1024	Standard Facility Requirements
AFI 32-1032	Planning and Programming Real Property Maintenance Projects Using Appropriated Funds
AFM 88-3	Structural Design Criteria Loads
AFP 88-40	Sign Standards
ADA	Americans with Disabilities Act
DoD 4270.1-M	Construction Criteria Manual
FED STD. 795	Uniform Federal Accessibility Standards
MIL-HDBK 1008B	Fire Protection for Facilities Engineering, Design, and Construction
MIL-HDBK 1190	Military Building Code
NFPA 70	National Electric Code
NFPA 101	Life Safety Code
NFPA 220	Types of Construction
10 CFR Chapter 11	Energy Conservation Voluntary Performance Standards for New Buildings
UFAS	Uniform Federal Accessibility Standards
AMC	Air Force Housing Support Facilities Guide
AMC	Commander's Guide to Facility Excellence
AMC	Commander's Guide to Self-Help Success
AMC	Architectural Compatibility Plans
AMC	Commander's Guide to Family Housing Excellence
ACC & AMC	Fire Station Facilities Design Guide
AMC	Interior Design Guide
AMC	Landscape Design Guide
AMC	Sign Standards, "Engineering Technical Letter" (ETL 93-02)

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