STANDARD DESIGN

AIR FORCE CIVIL ENGINEER SQUADRON EXPLOSIVE ORDINANCE DISPOSAL FACILITY



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CHAPTER 1 INTRODUCTION

1.1. STANDARD DESIGN

Standard Designs provide functional and spatial requirements for specific Air Force facility types, and are intended for use in conjunction with DoD Unified Facilities Criteria (UFC), Air Force Corporate Facility Standards, Installation Facility Standards, and other applicable standards.

Standard Designs are living documents that are periodically reviewed, updated, and made available to users by posting on the Whole Building Design Guide. This Standard Design, as well as those for many other Air Force facilities, can be accessed at this web site: http://wbdg.org/ffc/af-afcec/prototypes-standard-designs

This Standard Design is effective upon issuance and is distributed only in electronic media.

1.2 AIR FORCE STANDARD DESIGN POLICY

1.2.A. Required use of Standard Designs

The use of Air Force Corporate Facilities Standards (AFCFS), Installation Facility Standards (IFS) and Standard Designs has been codified in the most recent version of AFI 32-1023, *Designing and Constructing Military Construction Projects* (ref (c)). In compliance with the AFI, all facility designs must conform to the standards outlined and specified in the AFCFS, and if there is an applicable Installation Facilities Standards (IFS) document, the project must conform to those standards as well.

This Standard Design was developed in close coordination with the facility's functional users to determine personnel counts, allowable/authorized space/room sizes, adjacency diagrams between the functional spaces, and the overall facility space requirements. It also addresses special requirements unique to this facility type. Use this Standard Design in conjunction with other AF policy and regulations such as AFI's, and UFC's when programming and designing this facility type.

1.2.B. Integration with Air Force Corporate and Installation Facility Standards

The Air Force Corporate Facilities Standards (AFCFS), is an enterprise-wide program of facility standards establishing an acceptable level of quality and performance for facility design, facility operations and ongoing building maintenance. The AFCFS provides an exciting direction forward; intended to create sustainable installations and cohesive, efficient, High Performance and Sustainable Buildings throughout the Air Force.

Installation Facilities Standards (IFS) are part of the Air Force Corporate Facilities Standards (AFCFS) program to assist bases in implementing facilities standards at the

local level. Bases develop and maintain an IFS, which replaces the Architectural Compatibility Plan, as a component plan of the Installation Development Plan (IDP).

Programmers and designers for CES Explosive Ordinance Disposal Facility must use this Standard Design to ensure the specific functional, spatial, and special requirements are met, meet the local requirements established by the IFS, and the overall Air Force requirements set forth in the AFCFS.

1.3 APPLICABILITY

This Standard Design provides requirements for evaluating, planning, programming, and designing a CES Explosive Ordinance Disposal Facility that supports the mission, is appropriately sized, flexible, durable, and life-cycle cost efficient. The information in this Standard Design applies to the design of all new construction projects, to include additions, alterations, and renovation projects worldwide. It also applies to the procurement of Design Build services for the above-noted projects. Alteration and renovation projects should update existing facilities to meet the guidance and criteria within budgetary constraints.

The facility size is dependent on the size of the Mobility Gear Storage and Vehicle Maintenance storage areas of the facility. Use the Interactive Programming Worksheet to assist in these adjustments.

1.3. A. Additions and Alterations

For additions and alterations to existing facilities, use the adjacencies, sizing/scope and detailed requirements contained in the site diagrams, module drawings, and room data sheets to the maximum extent possible. The functionality and adjacency of the modules are still valid, but may require some manipulation to fit into existing spaces. This standard may be modified slightly to accommodate the existing structure. Remove non-structural walls to the greatest extent possible to open up space in the existing facilities to make them more receptive to the placement of the modules. The planner and designer must determine the most efficient means to balance the placement of modules within existing spaces or as a facility addition.

CHAPTER 2 FACILITY DESIGN

2.1 FACILITY DESCRIPTION

2.1.A. Function

The primary function of this CES Explosive Ordinance Disposal Facility is to provide a facility that fully supports the mission with a flexible state-of-the-art building. The facility supports weapons and vehicle storage and communications technology within a standalone facility. The primary areas in the facility are the Mobility Gear Storage and Vehicle Maintenance Storage. The CES Explosive Ordinance Disposal Facility will consist of, but are not limited to grouped rooms or "Modules". The modules needed for this facility are as follows (included rooms are noted below module title):

Facility Modules

- Administrative Module
 - Administration Open Office, Flight Commander, Flight Chief
- Training Module
 - Training Room
- Vehicle Maintenance/ Secure Storage Module
 - Vehicle Maintenance / Secure Storage, Caged Storage, Mobility Base Storage
- Mobility Gear Storage Module
 - Emergency Response/ Mobility Individual Equipment Storage
- Storage Module
 - Classified Storage, Primary Weapons Vault
- Operations Control Module
 - Operations Control Center
- Administrative Support Module
 - Physical Fitness, Hazmat Pharmacy, Ready Room, Laundry
- Toilets/Showers/Janitor Module
 - Men's Toilet /Shower, Women's Toilet /Shower, Janitor
- Building Support
 - Mechanical Room, Electrical Room, IT/Communications Room, Fire Pump Room

AFCFS: Consult the Air Force Corporate Facilities Standards (AFCFS) to determine quality standards for this facility group. This standard facility prototype is considered a Group 3 hierarchy.

2.1.B. Typical Users

This facility is operated by active duty, guard, and reserve military personnel as well as civilian contractor representatives of the systems providers as well as USAF Civilian Federal Workforce.

The number of occupants is approximately 40 personnel consisting of both civilian and military personnel throughout the building. Hours of operation for this facility type are user driven, typically one day full shift and small second shift.

2.1.C. Related AFMAN 32-1084 Category Code

The related AFMAN 32-1084 Category Codes are as follows: This facility would be governed by Chapter 2, Facility Class 1, Operation and Training, Category Group 14, Operations Facilities, Sub-Category Squadron Operations CATCODE 141753 and Chapter 6, Facility Class 6, Administrative, Category Group 61, Administrative and Administrative Support Spaces.

2.2 CRITERIA

APPLICABLE UNIFIED FACILITY CRITERIA

Comply with UFC 1-200-01, DoD Building Code (General Building Requirements). UFC 1-200-01 provides applicability of model building codes and government unique criteria for typical design disciplines and building systems, as well as for accessibility, antiterrorism, security, high performance and sustainability requirements, and safety. Use this Standard Design in addition to UFC 1-200-01 and the UFCs and government criteria referenced therein. UFC 1-200-01 references other "Core UFCs" that are applicable to this Standard Design as well as most all DoD facilities.

UFC 1-200-01	DoD Building Code (General Building Requirements)
UFC 1-200-02	High Performance and Sustainability Building Requirements
UFC 1-300-07A	Design Build Technical Requirements
UFC 3-101-01	Architecture
UFC 3-110-03	Roofing
UFC 3-120-01	Design: Sign Standards
UFC 3-120-10	Interior Design
UFC 3-190-06	Protective Coatings and Paints
UFC 3-201-01	Civil Engineering
UFC 3-201-02	Landscape Architecture
UFC 3-210-10	Low Impact Development
UFC 3-220-01	Geotechnical Engineering

UFC 3-230-01	Water Storage, Distribution, and Transmission
UFC 3-240-01	Wastewater Collection
UFC 3-250-01	Pavement Design for Roads and Parking Areas
UFC 3-250-03	Standard Practice Manual for Flexible Pavements
UFC 3-250-04	Standard Practice for Concrete Pavements
UFC 3-260-01	Airfield and Heliport Planning and Design
UFC 3-301-01	Design: Structural Engineering
UFC 3-400-02	Design: Engineering Weather Data
UFC 3-401-01	Mechanical Engineering
UFC 3-410-01	Heating, Ventilation, and Air Conditioning Systems
UFC 3-410-02	Lonworks Direct Digital Control for HVAC and Other Local Building Systems
UFC 3-420-01	Plumbing Systems
UFC 3-450-01	Noise and Vibration Control
UFC 3-501-01	Electrical Engineering
UFC 3-520-01	Interior Electrical Systems,
UFC 3-530-01	Design: Interior and Exterior Lighting and Controls
UFC 3-550-01	Exterior Electrical Power Distribution
UFC 3-570-01	Cathodic Protection
UFC 3-575-01	Lightning and Static Electricity Protection Systems
UFC 3-580-01	Telecommunications Building Cabling Systems Planning and Design
UFC 3-600-01	Fire Protection Engineering for Facilities
UFC 4-010-01	DoD Minimum Antiterrorism Standards for Buildings
UFC 4-010-05	Sensitive Compartmented Information Facilities Planning, Design, and Construction.
UFC 4-020-01	Security Engineering Facilities Planning Manual

UFC 4-021-01	Design and O&M: Mass Notification Systems
UFC 4-010-06	Cybersecurity of Facility-Related Control Systems
UFC 4-022-03	Security Fences and Gates
UFC 4-023-03	Design of Buildings to Resist Progressive Collapse
USGBC LEED-NC	LEED for New Construction and Major Renovations Rating System (U.S. Green Building Council)

2.2.A. Sustainability

Comply with the Federal sustainability requirements as detailed in UFC 1-200-02, High Performance and Sustainable Building Requirements. Determine third-party certification requirements based on Table 1-1 of UFC 1-200-02 and current AF guidance at https://www.wbdg.org/ffc/af-afcec.

2.2.B. Security and Antiterrorism

The facility must meet UFC 04-010-01 DoD Minimum Antiterrorism Standards for Buildings, Change 1 and ICD/ICS 705 Technical Specifications for Construction and Management of Sensitive Compartmented Information Facilities. Internal security measures include designated 'non-secure' and 'secure' areas within the building with access to secure areas controlled and monitored special access hardware, Intrusion Detection Systems and Closed-Circuit Television Systems (CCTV). Exterior security measures will include antiterrorism stand-off distances for parking, controlled vehicular circulation, appropriately located trash enclosures, clear space surrounding the facility, and the primary single point of building entry.

2.3 NOTIONAL SITE

2.3.A. Site Location, Orientation and Adjacencies

The notional site plan diagram demonstrates key site development criteria. It is not a site-specific solution. The information represents the land requirements to construct this facility and includes associated AT standoff and parking. Utilization of existing or shared parking is allowable and may reduce the total acreage required for the facility. Adapt the requirements to the specific site and location and comply with the applicable Installation Development Plan (IDP) and Area Development Plan (ADP) for facility siting.

Several factors determine the most appropriate and cost-effective location for a facility. The availability and capacity of required utilities and the mass/scale of the facility relative to adjacent structures and noise issues must be analyzed.

Emphasis must be placed on operation, function, and safety when siting the facility. The location of the facility is determined by the base master plan and is generally located in a specific geographic area or 'zone' of the base.

The approximate project area required for the CES Explosive Ordinance Disposal Facility is 6.0 acres, which includes antiterrorism standoff and parking

Provide a separately fenced concrete pad area (minimum 20 feet by 20 feet) within the larger fenced compound for explosive container storage. The container storage area shall be sited at least 100 feet from any inhabited facilities. Adequate clear zone and standoff per explosive quantity distance requirements shall be applied around the entire container storage area.

2.3.B. Parking

Parking is recommended to be provided to accommodate 60 percent of the assigned personnel to the facility plus additional parking for government vehicles. Government vehicle parking will be located in designated areas behind the secure fenced area at the rear of the facility, and visitor and staff vehicle parking will be located outside the secure fenced area at the front of the facility.

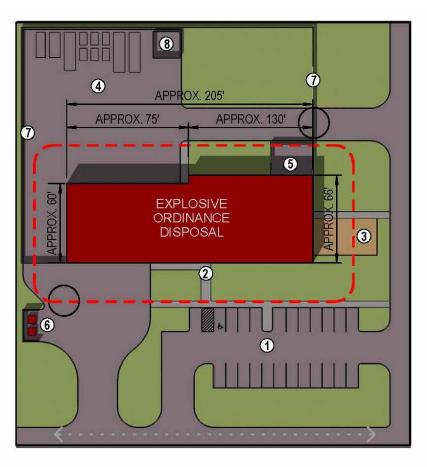
2.3.C. Vehicular and Pedestrian Circulation

Convenient and safe vehicular access and circulation must be provided for personal vehicles and essential services, including operations, maintenance, deliveries, garbage and recycling collection, and emergency services.

Locate sidewalk networks to provide convenient and safe pedestrian circulation from existing circulation elements of the project site to the new parking areas and doors of the facility. Sidewalk width must accommodate maintenance and emergency services requirements.

2.3.D. Notional Site Plan

See next page for image



NOTES: LEGEND: 99999999 POV PARKING LOT CONCEPTUAL AT SETBACK PRIMARY BUILDING ENTRY (REFERENCE UFC 4-010-01) SAND PIT ← - - > ACCESS STREET GOV PARKING - COVERED OPTIONAL SCREENED UTILITY YARD CONTROLLED VEHICLE **DUMPSTER ENCLOSURE** ACCESS SECURITY FENCE FENCED EXPLOSIVE CONTAINER STORAGE COMPOUND

2.4 BUILDING DESIGN

2.4.A. General Considerations

General considerations of the facility design are centered on:

- The Operations and Storage areas of the facility
- The functional relationships between the modules as well as within the modules
- The general personnel flow requirements within the facility.

Daily shift personnel enter the facility through the primary building entrance.

2.4.B. Building Configuration

The building should be configured for future expansion or reconfiguration. The general size of the building is based on the Mobility Gear Storage and Vehicle Maintenance Storage areas. The size of the following modules affects the administrative and support areas of the facility:

- Vehicle Maintenance Storage
- Mobility Gear Storage

2.4.C. Interior/Exterior Relationships

This facility is a mix of administrative and storage occupants and a single main point of entry with two entrance/egress points at the primary corridor spine. Visitors and clients will enter the facility through the main entrance vestibule. All modules are accessed from a linear corridor.

Exterior doors (with exception of Building Utility Rooms) will have security hardware for secondary entry capability for staff personnel. The Vehicle Maintenance/ Storage & Mobility Gear Storage Modules will require vehicle access to the exterior with overhead doors. The Building Support Module needs exterior access. Doors in these areas will open on to utility courtyard and sidewalk to vehicular drive for maintenance.

2.4.D. Functional Area Requirements

Facility Modules Adjacency Diagrams & Conceptual Axonometric Layout(s)

The composite diagram(s) represent ways to conceptually assemble the functional areas (modules) into a cohesive whole. Individual modules are represented by different colors.

Spaces and rooms that are integrally related with a specific functional connection or operational flow are grouped into a module. Modules and the associated room data sheets identify specific criteria and additional detail for each functional area of the facility as outlined in the Interactive Programming Sheet located in Chapter 3.

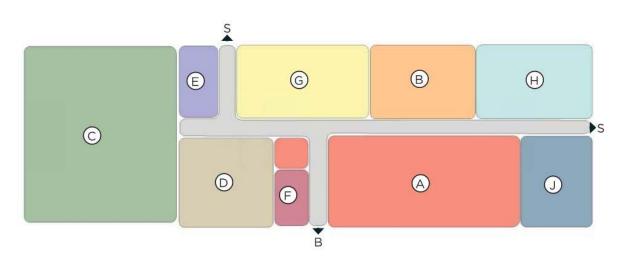
The modules are a grouping of functional spaces and represent "Lego blocks" to be used in a "kit-of-parts" design approach. Use the fixed modules as pre-assembled pieces of the facility "puzzle". Assemble them to comply with the required adjacencies indicated in the diagrams and module plans.

Modules must be used as shown in this Standard Design to the greatest extent possible, and must not be deconstructed or altered except as indicated herein. The intent of the Standard Design criteria is to avoid manipulation of the composition, functional relationships, adjacencies, and module sizes. Modules contain fixed attributes and must not be changed arbitrarily. Modules may be rotated, flipped, and/or mirrored to accommodate an overall composition or site issue, but this must not be done arbitrarily and should occur only when necessary.

Some modules are linked to space requirements that increase or decrease in size based on the personnel count and equipment for a particular mission. In these cases, increase or decrease the size of the module to match the revised scope calculation. This may sometimes require minor adjustments in other adjacent modules so that they properly fit together to create a constructible facility floor plan. Spaces must comply with any critical dimensions indicated on module plans. Manipulate as few modules as possible to create a constructible facility. The resulting composite plan must respect the established modules adjacencies and must not exceed the authorized project scope.

Functional Adjacency Diagram

The following Functional Adjacency Diagram will form the basis of design for the Standard Design plan for a typical CES Explosive Ordinance Disposal Facility. This facility is a mix of administrative and storage occupants and a single main point of entry with two entrance/egress points at corridor spine. Visitor and clients will enter facility through main entrance vestibule. All modules are accessed from a linear corridor. This Facility Adjacency Diagram and as well as the modules is the Air Force approved Standard Design plan.



- **ADMINISTRATION**
- B) TRAINING
- VEHICLE MAINTENANCE/ STORAGE
- D) MOBILITY GEAR STORAGE
- E) STORAGE
- F) OPERATIONS CONTROL
- G) ADMINISTRATIVE SUPPORT
- (H) TOILET, SHOWER, JANITOR
- **BUILDING SUPPORT**

- PRIMARY ADJACENCY
- O-O PROXIMITY
- → DIRECT ACCESS
- ---> DIRECT VIEW
- ENCLOSED AREA

ENTRY / EXIT

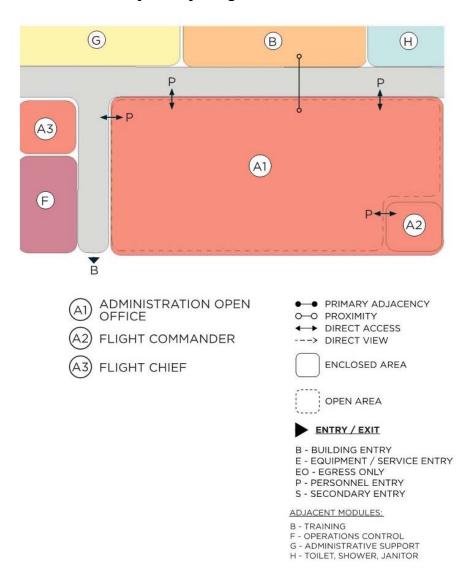
- A AIRCRAFT ENTRY
- **B BUILDING ENTRY**
- E EQUIPMENT / SERVICE ENTRY P PERSONNEL ENTRY
- S SECONDARY ENTRY

MODULE A – ADMINISTRATION

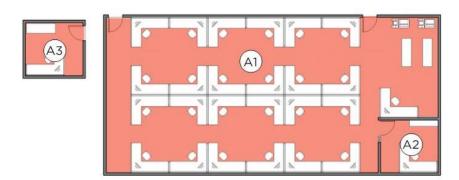
Function and Adjacency

The Administration Module is comprised of an Administration Open Office, a Flight Commander Office and a Flight Chief Office. The Administration Open Office area includes a desk/workstation for the Flight Superintendent, 24 general work stations for EOD staff, and an area for file storage and copier/printers. The Flight Commander office is an enclosed office space that can be separated by demountable partitions, systems furniture or metal stud/gypsum board wall construction. The Flight Chief Office is to be located adjacent to the Open Office area. This module is accessible via the main circulation corridor.

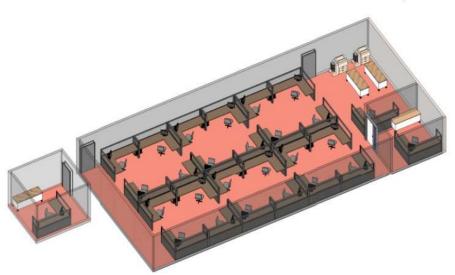
Figure 2-A.1 Module A Adjacency Diagram



Administration Figure 2-A.2 Module A Floor Plan & Axonometric



- (A1) ADMINISTRATION OPEN OFFICE
- (A2) FLIGHT COMMANDER
- (A3) FLIGHT CHIEF
 MODULE NET AREA: 2,340 SF

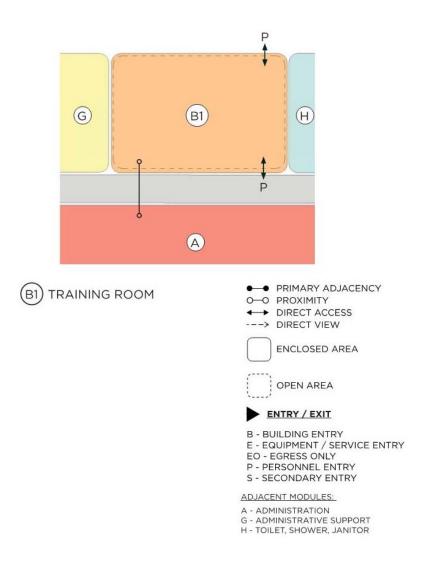


MODULE B - TRAINING

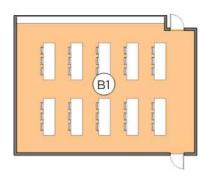
Function and Adjacency

The Training Module consists of a single room with 10 three-person training tables (three chairs each table), a lectern, and shelving for Ordinance display and storage. This room is to have exterior access to an adjacent demonstration sand pit. Interior access to room is to be located near Administration Module is accessed from main corridor.

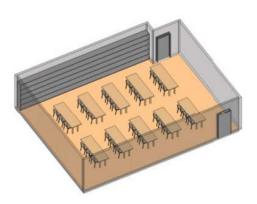
Figure 2-B.1 Module B Adjacency Diagram



Training
Figure 2-B.2 Module B Floor Plan & Axonometric



(B1) TRAINING ROOM MODULE NET AREA: 1,010 SF

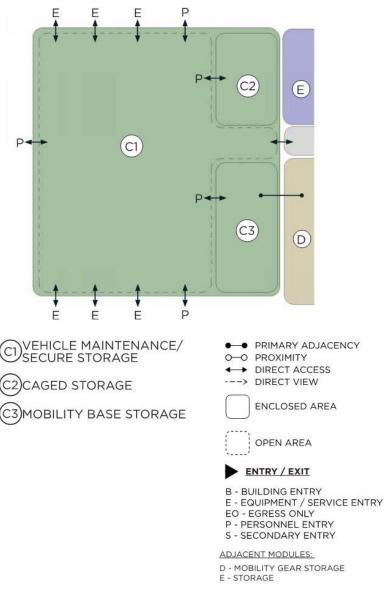


MODULE C – VEHICLE MAINTENANCE / STORAGE

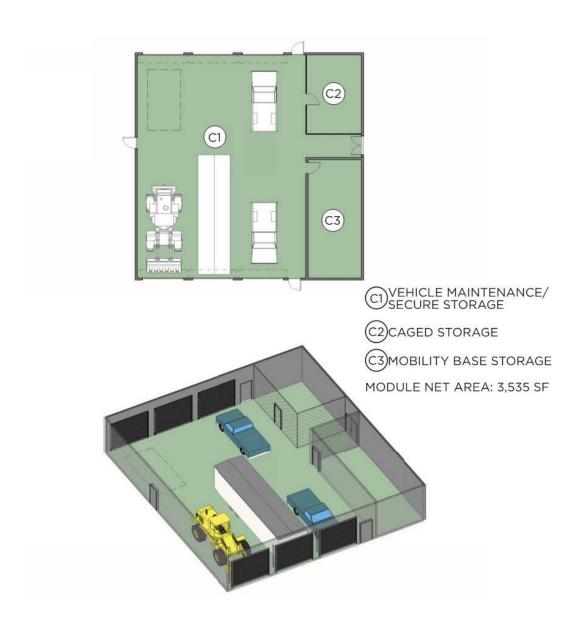
Function and Adjacency

The Vehicle Maintenance / Storage Module is comprised of a high bay Maintenance and Secure Storage/Vehicle Storage Bay, Caged Storage area and a Mobility Base Storage area. This space is to have overhead doors at each end of the bay for vehicles to drive through the space. There will be unobstructed egress paths within the space to egress doors. This Module is adjacent to the Emergency Response/Mobility Individual Equipment Storage and Storage Modules.

Figure 2-C.1 Module C Adjacency Diagram



Vehicle Maintenance/ Storage Figure 2-C.2 Module C Floor Plan & Axonometric

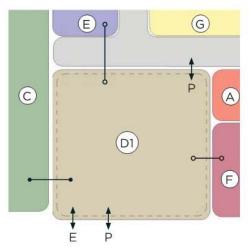


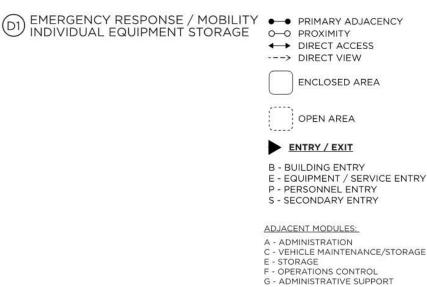
MODULE D – EMERGENCY RESPONSE AND MOBILITY INDIVIDUAL EQUIPMENT STORAGE

Function and Adjacency

The Emergency Response and Mobility Individual Equipment Storage Module consists of a single storage area for the mobility professional gear. This area is to accommodate two complete top and bottom Stanly Vidmar style storage containers per person assigned. This module is adjacent to Vehicle Maintenance/ Secure Storage Module and in close proximity to the Operations Control and Storage Modules.

Figure 2-D.1 Module D Adjacency Diagram

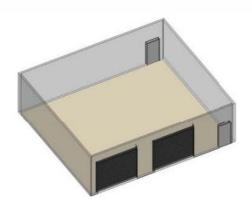




Module D Name Figure 2-D.2 Module D Floor Plan & Axonometric



EMERGENCY RESPONSE / MOBILITY INDIVIDUAL EQUIPMENT STORAGE MODULE NET AREA: 1,090 SF

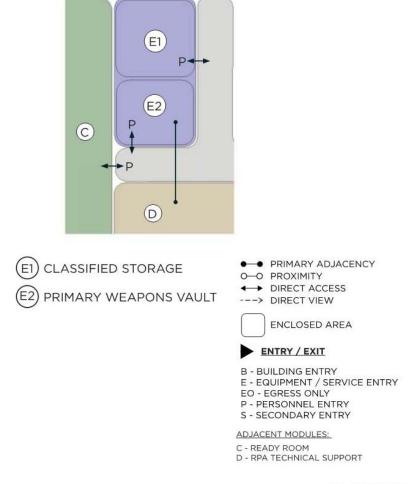


MODULE E - STORAGE

Function and Adjacency

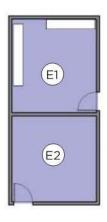
The Storage Module is comprised of a Classified Storage Room and a Primary Weapons Vault. This Module is adjacent to the Vehicle Maintenance / Secure Storage Module and in close proximity to the Emergency Response/ Mobility Individual Equipment Storage Module and these rooms are required to be secure.

Figure 2-E.1 Module E Adjacency Diagram



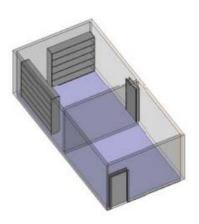
S

Storage Figure 2-E.2 Module E Floor Plan & Axonometric



- (E1) CLASSIFIED STORAGE
- E2 PRIMARY WEAPONS VAULT

MODULE NET AREA: 355 SF

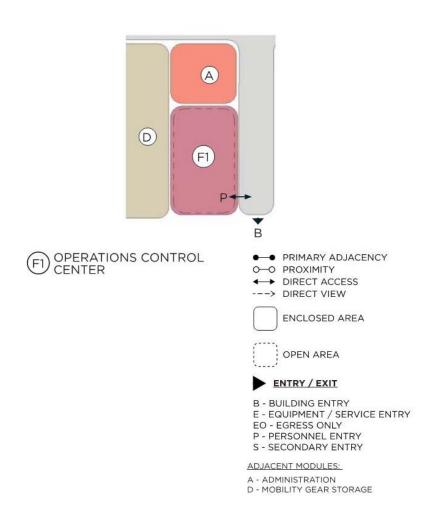


MODULE F - OPERATIONS CONTROL

Function and Adjacency

The Operations Control Module consists of a single room module. This room is an Open Office for two staff members and is manned during duty or when a team is in the field. This room must have two desks and a small conference table. This room is used to schedule operations and controlling teams in the field for emergency response. This Module is to be in close proximity to the Emergency Response/Mobility Individual Equipment Storage Module and needs to be a secure room.

Figure 2-F.1 Module F Adjacency Diagram



Operations Control Figure 2-F.2 Module F Floor Plan & Axonometric



OPERATIONS CONTROL CENTER MODULE NET AREA: 245 SF



MODULE G - ADMINISTRATION SUPPORT

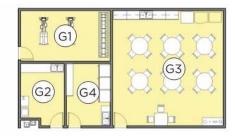
Function and Adjacency

The Administration Support Module is comprised of a Physical Fitness Room, a HAZMAT Pharmacy, a Laundry Room and a Ready Room. The ready room is required to have a designated recycling area. This Module shall be centrally located for all staff to access and have close proximity to the Administration module. Drinking fountains (one ABA compliant) are located in this Module accessed from main corridor.

Figure 2-G.1 Module G Adjacency Diagram

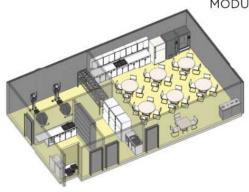


Administration Support Figure 2-G.2 Module G Floor Plan & Axonometric



- (G1) PHYSICAL FITNESS
- (G2) HAZMAT PHARMACY
- G3) READY ROOM
- G4) LAUNDRY

MODULE NET AREA: 1,190 SF

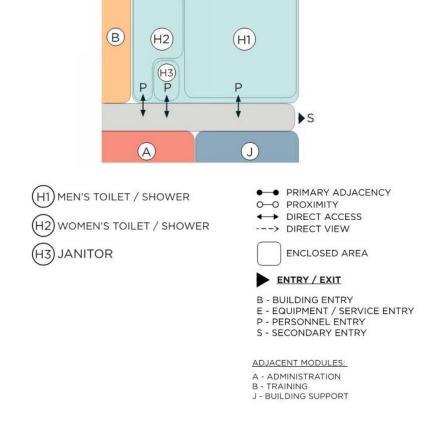


MODULE H – TOILETS, SHOWER JANITOR

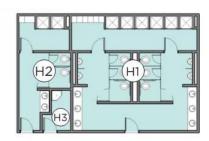
Function and Adjacency

The Toilets, Shower Janitor Module consists of a Men's Women's Toilet and Shower room and a Janitor closet. The toilet room facilities are provided are a ratio of 70/30. This Module is centrally located and has close proximity to the Administrative Module. The plumbing fixture count in the Standard design plan is approximate and actual plumbing fixture count shall be as required per actual occupancy count and as required in International Plumbing Codes, latest edition, Chapter 29.

Figure 2-H.1 Module H Adjacency Diagram

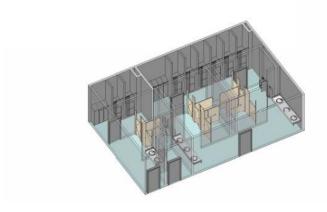


Toilets, Shower Janitor Figure 2-H.2 Module H Floor Plan & Axonometric



- (H1) MEN'S TOILET / SHOWER
- (H2)WOMEN'S TOILET / SHOWER
- (H3) JANITOR

MODULE NET AREA: 965 SF

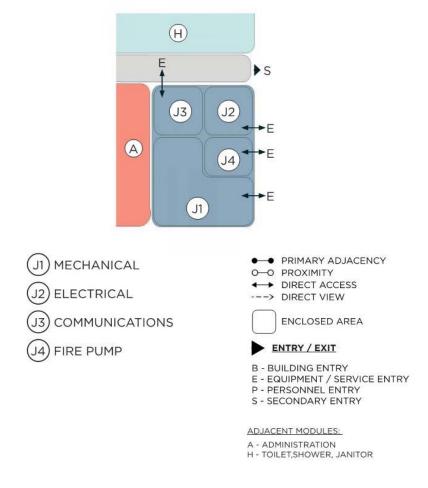


MODULE J - BUILDING SUPPORT

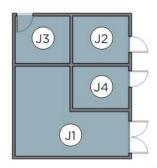
Function and Adjacency

The Building Support Module consists of Mechanical Room, Electrical Room and Telecommunications Room (Fire Protection Room if not in Mechanical Room). All rooms to have exterior access (with exception of Communications Room which may have interior access). These modules are to be located on exterior wall adjacent to a Utility Courtyard and accessible for maintenance.

Figure 2-J.1 Module J Adjacency Diagram

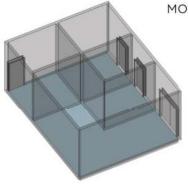


Building Support Figure 2-J.2 Module J Floor Plan & Axonometric



- (J1) MECHANICAL
- (J2) ELECTRICAL
- (J3) COMMUNICATIONS
- (J4) FIRE PUMP

MODULE NET AREA: 770 SF



2.4.E. Room Data Sheets

Specific requirements for each room, space, or area are provided on room data sheets that correspond to their respective color-coded Modules, basis of design Functional Adjacency Diagram as well as the Interactive Programming Worksheet. Information contained on the data sheets defines the functional and physical requirements for each of the spaces within the facility type and are generally minimum requirements and must be modified as required for specific unique situations/scenarios as deem appropriate by the USAF.

Index		A1
Description/Usage		This room is an open office space that accommodates approximately 25 persons. Space includes 24 workstations for EOD staff, 1 desk/workstation for Flight Superintendent and Copy/File Storage area. Room to be sized per AFMAN 32-1084, chapter 6.
Ceiling Height		9'-0" minimum
Windows		Exterior – Aluminum framed, insulated fixed, blast resistant; Meeting daylighting requirements of UFC 1-200-02
Doors	Туре	no doors
	Security/ Hardware	Keyed lock set
	View Panels/ Kick Plates	N/A
	Walls	Systems furniture, Demountable Partitions or Gyp. Board - Painted
Finishes	Floor	Sealed concrete, Stained concrete, Tile, or Carpet Tile
1 111131163	Base	Resilient or Tile
	Ceiling	Acoustical Ceiling Tile
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per desk
	Data	NIPR
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		25 workstations, 1 desk/workstation at enclosed office.
Special Requirements	S	N/A

Figure 2-A.3.2 Flight Commander Room Data Sheet		
Index		A2
Description/Usage		Office with one desk/workstation, size per AFMAN 32-1084, chapter 6, Flight Chief.
Ceiling Height		9'-0" minimum
Windows		Exterior – Aluminum framed, insulated fixed, blast resistant; Meeting daylighting requirements of UFC 1-200-02
	Туре	Hollow metal, 3'x7'
Doors	Security/ Hardware	Keyed lock set View Panels, 5"x20"
50013	View Panels/ Kick Plates	Kick Plates both sides of door
	Walls	Systems furniture, Demountable Partitions or Gyp. Board -Painted
Finishes	Floor	Sealed concrete, Stained concrete, Tile, or Carpet Tile
FIIIISHES	Base	Resilient or Tile
	Ceiling	Acoustical Ceiling Tile
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per desk
	Data	NIPR
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requireme	ents	Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		One desk/workstation.
Special Requirements		N/A

Figure 2-A.3.3 Flight Chief Room Data Sheet		
Index		A3
Description/Usage		Office with one desk/workstation, size per AFMAN 32-1084, chapter 6, Flight Chief.
Ceiling Height		9'-0" minimum
Windows		If located on Exterior – Aluminum framed, insulated fixed, blast resistant; Meeting daylighting requirements of UFC 1-200-02
Doors	Type Security/ Hardware	Hollow metal, 3'x7' Keyed lock set
	View Panels/ Kick Plates	View Panels, 5"x20" Kick Plates both sides of door
	Walls	Systems furniture, Demountable Partitions or Gyp. Board -Painted
Finishes	Floor	Sealed concrete, Stained concrete, Tile, or Carpet Tile
Tilliones	Base	Resilient or Tile
	Ceiling	Acoustical Ceiling Tile
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per desk
	Data	NIPR
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		One desk/workstation.
Special Requirements		N/A

Figure 2-B.3.1 Training Room Data Sheet		
Index		B1
Description/Usage		Small classroom with 10 three-person tables (and chairs) and a lectern, minimum 1120 sf in size.
Ceiling Height		9'-0" minimum
Windows		Exterior – Aluminum framed, insulated fixed, blast resistant; Meeting daylighting requirements of UFC 1-200-02
Doors	Туре	Hollow metal, 3'x7', interior and exterior door
	Security/ Hardware	Keyed lock set
	View Panels/ Kick Plates	View Panels, 5"x20" Kick Plates both sides of door
	Walls	Gypsum Board -Painted
Finishes	Floor	Sealed concrete, Stained concrete, Ceramic/Porcelain Tile, or Carpet Tile
Filliplies	Base	Resilient or Tile
	Ceiling	Acoustical Ceiling Tile
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per desk
	Data	NIPR
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		10 tables, 30 chairs, one lectern; wall mounted flat screen, marker boards, projector screen and ceiling mounted projector support.
Special Requirements	i .	N/A

Figure 2-C.3.1 Vehicle Maintenance/Secure Storage Room Data Sheet		
Index		C1
Description/Usage		High Bay area for vehicle maintenance and storage, secure caged storage area. Vehicle within bay include 4x4Pickup, 6-pack (19'-0" x 6'-7"x varies); Base Support Emergency Response Vehicle – BSERV (35'-6" x 8'-4" x 11'-4"); Total Containment Vessel – TCV (16'-5" x 8'-0" x 7'-2"); All-Purpose Remote Transport System – ARTS) 9'-6" x 5'-6" x 6'-6"). Minimum size shall be 2425 sf.
Ceiling Height		20'-0" minimum clearance
Windows		No Windows Permitted
	Туре	Hollow metal, 3'x7', six 10'x10' Overhead Doors (3 each side for vehicle drive through).
Doors	Security/ Hardware	Keyed lockset
	View Panels/ Kick Plates	No view panels Kick Plates both sides of doors
	Walls	CMU - Painted
Finishes	Floor	Epoxy – non-slip (fuel resistant) or Sealed concrete
1 111131163	Base	No base
	Ceiling	Exposed structure – Painted
Plumbing		Compressed air hose reels.
HVAC		Heated; ventilation, vehicle exhaust at each vehicle bay directed to exterior.
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per desk
	Data	NIPR
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		N/A
Special Requirements		N/A

Figure 2-C.3.2 Caged Storage Room Data Sheet		
Index		C2
Description/Usage		Secure wire-mesh caged storage area, 16'x21'x8'.
Ceiling Height		9'-0" minimum
Windows		No Windows Permitted
	Туре	Wire mesh gate, 3'x7'
Doors	Security/ Hardware	X09 type lockset
	View Panels/ Kick Plates	N/A
	Walls	Wire mesh partitions; CMU - painted
Finishes	Floor	Epoxy – non-slip (fuel resistant) or Sealed concrete
FIIIISHES	Base	No base
	Ceiling	Wire mesh ceiling; above cage is exposed structure – Painted
Plumbing		N/A
HVAC		Heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per space
	Data	N/A
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		N/A
Furnishings, Equipment and Casework		Storage racks/shelving inside wire mesh cage.
Special Requirements		N/A

Figure 2-C.3.3 Mobility Base Storage Room Data Sheet		
Index		C3
Description/Usage		Storage room for base Mobility equipment
Ceiling Height		9'-0" minimum
Windows		No Windows Permitted
	Туре	Hollow metal, 3'x7'
Doors	Security/ Hardware	X09 type lockset
	View Panels/ Kick Plates	No view panels Kick Plates both sides of doors
	Walls	CMU - Painted
Finishes	Floor	Epoxy – non-slip (fuel resistant) or Sealed concrete
FIIIISHES	Base	No base
	Ceiling	Acoustical Ceiling Tile
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per space
	Data	N/A
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		Storage racks/shelving
Special Requirements		N/A

Figure 2-D.3.1 Emergency R		Response / Mobility Individual Equipment Storage Room Data Sheet
Index		D1
Description/Usage		Storage room for professional gear storage, 1160 sf minimum size.
Ceiling Height		9'-0" minimum
Windows		No Windows Permitted
	Туре	Hollow metal, 3'x7', one 10'x10' Overhead Doors (drive through not required)
Doors	Security/ Hardware	X09 type lockset
	View Panels/ Kick Plates	No view panels Kick Plates both sides of doors
	Walls	CMU- Painted
Finishes	Floor	Epoxy – non-slip (fuel resistant) or Sealed concrete
FILLISTIES	Base	No base
	Ceiling	Exposed structure – Painted
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation; humidity control
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per space
	Data	N/A
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		Storage racks/shelving.
Special Requirements		N/A

Figure 2-E.3.1 Classified Storage Room Data Sheet		
Index		E1
Description/Usage		Classified Storage room for classified information and items
Ceiling Height		9'-0" minimum
Windows		No Windows Permitted
	Туре	Hollow metal, 3'x7
Doors	Security/ Hardware	X09 type lockset
	View Panels/ Kick Plates	No view panels Kick Plates both sides of doors
	Walls	CMU - Painted
Finishes	Floor	Sealed concrete
Fillisties	Base	No base
	Ceiling	Gypsum board – Painted
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	N/A
	Data	N/A
Communication	CCTV	N/A
	CATV	N/A
	Security	IDS
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		Storage racks/shelving, 1 Personnel Desk.
Special Requirements		N/A

Figure 2-E.3.2 Primary Weapons Vault Room Data Sheet		
Index		E2
Description/Usage		Secure Storage room for weapons storage, 150 sf minimum size.
Ceiling Height		9'-0" minimum
Windows		No Windows Permitted
	Туре	Class-5 V GSA approved vault door
Doors	Security/ Hardware	Class-5 V GSA approved vault door with spin dial security hardware; IDS system
	View Panels/ Kick Plates	No view panels
	Walls	Concrete - Painted
Finishes	Floor	Sealed concrete
FILLISHES	Base	No base
	Ceiling	Concrete - painted
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per space
	Data	N/A
Communication	CCTV	N/A
	CATV	N/A
	Security	IDS
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		Secure weapons rack and lockers.
Special Requirements		N/A

Figure 2-F.3.1 Operations Control Room Data Sheet		
Index		F1
Description/Usage		Open Office with two workstations and small conference table. This room to be a minimum of 225 sf in size.
Ceiling Height		9'-0" minimum
Windows		Exterior – Aluminum framed, insulated fixed, blast resistant; Meeting daylighting requirements of UFC 1-200-02
	Туре	Hollow metal, 3'x7'
Doors	Security/ Hardware	X09 type lockset
	View Panels/ Kick Plates	No view panels Kick Plates both sides of doors
	Walls	Gypsum board - Painted
Finishes	Floor	Sealed concrete, Stained concrete, Tile, or Carpet Tile
Tillistics	Base	Resilient or Tile
	Ceiling	Acoustical Ceiling Tile
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per desk
	Data	NIPR
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		Two workstations and small 4-person conference table, storage.
Special Requirements		N/A

	Figure	2-G.3.1 Physical Fitness Room Data Sheet
Index		G1
Description/Usage		Small room with exercise equipment, (stationary bicycle, treadmill, free weights).
Ceiling Height		9'-0" minimum
Windows		Exterior – Aluminum framed, insulated fixed, blast resistant; Meeting daylighting requirements of UFC 1-200-02
	Туре	Hollow metal, 3'x7'
Doors	Security/ Hardware	Keyed lock set
	View Panels/ Kick Plates	View Panels, 5"x20" Kick Plates both sides of doors
	Walls	Gypsum Board – Painted
Finishes	Floor	Sealed concrete with rubber exercise flooring.
Tilliones	Base	Resilient
	Ceiling	Acoustical Ceiling Tile
Plumbing		N/A
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		120v dedicated circuits for coffee maker, microwave, & refrigerator; 120v convenience outlets per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	N/A
	Data	N/A
Communication	CCTV	N/A
	CATV	Wall mounted flat screen TV
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		N/A
Special Requirements		N/A

	2-G.3.2 Hazmat Pharmacy Room Data Sheet	
Index		G2
Description/Usage		This is a small room with locker storage for antidotes, vaccines, medical response items, space for 2-3 refrigerators, Cabinet, countertop with sink, base cabinet.
Ceiling Height		9'-0" minimum
Windows		No Windows Permitted
	Туре	Hollow metal, 3'x7'
Doors	Security/ Hardware	X09 type lockset
	View Panels/ Kick Plates	No view panels Kick Plates both sides of doors
	Walls	Gypsum Board – Painted
Finishes	Floor	Sealed concrete, Stained concrete, or Tile
Tillistics	Base	Resilient or Tile
	Ceiling	Gypsum board - painted
Plumbing		Hand sink
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per space
	Data	One per space
Communication	CCTV	N/A
	CATV	N/A
	Security	IDS
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		Two 12" x 15" lockers and 2-3 refrigerators.
Special Requirements		N/A

	ı	Figure 2-G.3.3 Ready Room Data Sheet
Index		G3
Description/Usage		Break area centrally located for staff
Ceiling Height		9'-0" minimum
Windows		N/A
	Туре	Hollow metal, 3'x7'
Doors	Security/ Hardware	Keyed lock set
	View Panels/ Kick Plates	View Panels, 5"x20" for door to corridor Kick Plates both sides of doors
	Walls	Gypsum Board – Painted
Finishes	Floor	Sealed concrete, Stained concrete, or Tile
FILIISHES	Base	Resilient or Tile
	Ceiling	Acoustical Ceiling Tile
Plumbing		Sink with disposal, hot water
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		120v dedicated circuits for coffee maker, microwave, & refrigerator; 120v convenience outlets per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	One per space
	Data	N/A
Communication	CCTV	N/A
	CATV	YES
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		Refrigerator, microwave, dishwasher, double sink with disposal; vending machines; Wall mounted bulletin board, 8 small tables to accommodate 3-4 persons ea.
Special Requirements		Recycling Area

	F	igure 2-G.3.4 Laundry Room Data Sheet
Index		G4
Description/Usage		Small room for PPE cleaning with commercial type washer and dryer. Minimum size of room to be 110 sf.
Ceiling Height		9'-0" minimum
Windows		No Windows Required
	Туре	Hollow metal, 3'x7'
Doors	Security/ Hardware	Keyed lock set
	View Panels/ Kick Plates	View Panels, 5"x20" Kick Plates both sides of doors
	Walls	Gypsum Board – Painted or CMU -Painted
Finishes	Floor	Sealed concrete, Stained concrete, Quartz Epoxy or Ceramic/Porcelain Tile
FIIIISHES	Base	Resilient Base, Quartz Epoxy or Ceramic/Porcelain tile
	Ceiling	Acoustical Ceiling Tile or Open to structure – Painted
Plumbing		Sink with disposal, hot water
HVAC		Air Conditioned; heated; ventilation
Fire Protection		Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
	Tele.	N/A
	Data	N/A
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		Per UFC 3-450-01 for Noise Control
Furnishings, Equipment and Casework		Commercial type washer and dryer.
Special Requirements		N/A

Figure 2-H.3.1 Men's Toilet / Shower Room Data Sheet		
Index		H1
Description/Usage		Men's toilet room with two water closets (one ABA), two urinals (one ABA compliant) and 3 lavatories (one ABA compliant). Shower room is attached to the room with one ABA compliant shower.
Ceiling Height		8'-0" minimum
Windows		N/A
	Туре	Hollow metal, 3'x7'
Doors	Security/ Hardware	Privacy lock set
	View Panels/ Kick Plates	No view panels Kick plates on both sides of door
	Walls	Gypsum Board – Painted, Ceramic Wall Tile in Showers
E	Floor	Porcelain tile or Quartz Epoxy
Finishes	Base	Porcelain tile or Quartz Epoxy
	Ceiling	Gypsum Board - Painted
Plumbing		Water closets, urinals, lavatories. Floor drain in restroom area.
HVAC		Heating, ventilation, air conditioning. Exhaust directly outdoors.
Fire Protection / Life Sa	fety	Wet pipe sprinkler system
Power		Per UFC 3-520-01
Lighting		Per UFC 3-530-01
-	Tele.	N/A
	Data	N/A
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical		Per UFC 3-450-01 for Noise Control
Furnishings / Equipment / Casework		Fixture count shall be determined by the number of building occupants at maximum load per International Plumbing Code latest edition, Chapter 29; wall hung water closets and urinals, lavatories in counter tops. Bench and 3 double stacked lockers
Special Requirements		Water resistant gypsum board throughout.

	Figure 2-	H.3.2 Women's Toilet/Shower Room Data Sheet				
Index		H2				
Description/Usage		Women's toilet room with two water closets (one ABA compliant), and 2 lavatories (one ABA compliant) and one ABA compliant shower.				
Ceiling Height		8'-0" minimum				
Windows		N/A				
	Туре	Hollow metal, 3'x7'				
Doors	Security/ Hardware	Privacy lock set				
	View Panels/ Kick Plates	No view panels Kick plates on both sides of door				
	Walls	Gypsum Board – Painted, Ceramic Wall Tile in Showers				
Finishes	Floor	Porcelain tile or Quartz Epoxy				
i iiiisiies	Base	Porcelain tile or Quartz Epoxy				
	Ceiling	Gypsum Board - Painted				
Plumbing		Water closets, lavatories. Floor drain in restroom area.				
HVAC		Heating, ventilation, air conditioning. Exhaust directly outdoors.				
Fire Protection / Life Safety		Wet pipe sprinkler system				
Power		Per UFC 3-520-01				
Lighting		Per UFC 3-530-01				
<u> </u>	Tele.	N/A				
	Data	N/A				
Communication	CCTV	N/A				
	CATV	N/A				
	Security	N/A				
Acoustical		Per UFC 3-450-01 for Noise Control				
Furnishings / Equipment / Casework		Fixture count shall be determined by the number of building occupants at maximum load per International Plumbing Code latest edition, Chapter 29; wall hung water closets and urinals, lavatories in counter tops. Bench and three 12x12 double stacked lockers.				
Special Requirements		Water resistant gypsum board throughout.				

		Figure 2-H.3.3 Janitor Room Data Sheet			
Index		H3			
Description/Usage		Custodial room for general maintenance for the building.			
Ceiling Height		8'-0" minimum			
Windows		N/A			
	Туре	Hollow metal, 3'x7'			
Doors	Security/ Hardware	Keyed lock set			
	View Panels/ Kick Plates	No view panels Kick Plates both sides of door			
	Walls	Gypsum Board - Painted, Ceramic Tile wainscot at mop sink			
Finishes	Floor	Porcelain Tile or Quartz Epoxy			
Tillistics	Base	Porcelain Tile or Quartz Epoxy			
	Ceiling	Gypsum Board - Painted			
Plumbing		Mop sink with hot water, floor drain			
HVAC		Heating, ventilation, air conditioning. Exhaust directly outdoors			
Fire Protection / Life Safety		Wet pipe sprinkler system			
Power		Per UFC 3-520-01			
Lighting		Per UFC 3-530-01			
	Tele.	N/A			
	Data	N/A			
Communication	CCTV	N/A			
	CATV	N/A			
	Security	N/A			
Acoustical		Per UFC 3-450-01 for Noise Control			
Furnishings / Equipment / Casework		N/A			
Special Requirements		Water resistant gypsum board throughout.			

Figure 2-J.3.1 Mechanical Room Data Sheet					
Index		J1			
Description/Usage		Mechanical equipment and service.			
Ceiling Height		No ceiling, 9' minimum clearance			
Windows		No Windows Required			
	Туре	Hollow metal, pair 3'x7', exterior access required			
Doors	Security/ Hardware	Keyed lock set			
200.0	View Panels/ Kick Plates	No view panels Kick Plates each side of door			
	Walls	CMU – Painted			
Finishes	Floor	Sealer Hardener			
FILIIZITES	Base	No base			
	Ceiling	Open to Structure - Painted			
Plumbing		Floor drains as required			
HVAC		Heated & Ventilated			
Fire Protection		Wet pipe sprinkler system			
Power		Per UFC 3-520-01			
Lighting		Per UFC 3-530-01			
	Tele.	One per space			
	Data	NIPR			
Communication	CCTV	N/A			
	CATV	N/A			
	Security	N/A			
Acoustical Requirements		Per UFC 3-450-01 for Noise Control			
Furnishings, Equipment and Casework		N/A			
Special Requirements		N/A			

Figure 2-J.3.2 Electrical Room Data Sheet					
Index		J2			
Description/Usage		Electrical equipment and service.			
Ceiling Height		No ceiling, 9'-0" minimum clearance			
Windows		No Windows Required			
Doors	Туре	Hollow metal, 3'x7', exterior access required			
	Security/ Hardware	Keyed lock set			
	View Panels/ Kick Plates	No view panels Kick Plates each side of door			
	Walls	CMU - Painted			
Finishes	Floor	Sealer Hardener			
rillisties	Base	No base			
	Ceiling	Open to Structure - Painted			
Plumbing		N/A			
HVAC		Heated & Ventilated			
Fire Protection		Wet pipe sprinkler system			
Power		Per UFC 3-520-01			
Lighting		Per UFC 3-530-01			
	Tele.	One per space			
	Data	NIPR			
Communication	CCTV	N/A			
	CATV	N/A			
	Security	N/A			
Acoustical Requirements		N/A			
Furnishings, Equipment and Casework		N/A			
Special Requirements		N/A			

Figure 2-J.3.3 Communications Room Data Sheet						
Index		J3				
Description/Usage		Communication and UPS service.				
Ceiling Height		No ceiling, 9'-0" minimum clearance				
Windows		No Windows Required				
	Туре	Hollow metal, 3'x7', interior or exterior access is acceptable				
Doors	Security/ Hardware	Keyed lock set				
	View Panels/ Kick Plates	No view panels Kick Plates each side of door				
	Walls	CMU - Painted				
Finishes	Floor	Sealer Hardener				
Fillisties	Base	No base				
	Ceiling	Open to Structure - Painted				
Plumbing		N/A				
HVAC		Heated & Ventilated; Dedicated cooling for Comm.				
Fire Protection		Wet pipe sprinkler system				
Power		Per UFC 3-520-01				
Lighting		Per UFC 3-530-01				
	Tele.	N/A				
	Data	NIPR				
Communication	CCTV	N/A				
	CATV	N/A				
	Security	N/A				
Acoustical Requirements		N/A				
Furnishings, Equipment and Casework		N/A				
Special Requirements		N/A				

	Figu	re 2-J.3.4 J4 Fire Pump Room Data Sheet			
Index		J4			
Description/Usage		Fire pumps, equipment and service.			
Ceiling Height		No ceiling, 9' minimum clearance			
Windows		No Windows Required			
Doors	Туре	Hollow metal, pair 3'x7', exterior access required			
	Security/ Hardware	Keyed lock set			
	View Panels/ Kick Plates	No view panels Kick Plates each side of door			
	Walls	CMU – Painted			
Finishes	Floor	Sealer Hardener			
Finishes	Base	No base			
	Ceiling	Open to Structure - Painted			
Plumbing		Floor drains as required			
HVAC		Heated & Ventilated			
Fire Protection		Wet pipe sprinkler system			
Power		Per UFC 3-520-01			
Lighting		Per UFC 3-530-01			
	Tele.	One per space			
	Data	NIPR			
Communication	CCTV	N/A			
	CATV	N/A			
	Security	N/A			
Acoustical Requirements		Per UFC 3-450-01 for Noise Control			
Furnishings, Equipment and Casework		N/A			
Special Requirements		N/A			

Figure 2-X-3.1 Entrance & Circulation Room Data Sheet						
Index						
Description/Usage		All areas of general facility circulation. This includes facility entrances, vestibules or corridor spaces. An air lock type entrance vestibule may be required.				
Ceiling Height		9'-0" minimum				
Windows		No windows required				
	Туре	Hollow metal, 3' x 7' (egress), 3' x7' aluminum framed with full glass (medium stile entrance vestibule.				
Doors	Security/ Hardware	Keyed lock set				
	View Panels/ Kick Plates	Side lites and transom at entrance vestibule doors Kick plates both sides of door				
	Walls	Gypsum board - painted				
Finishes	Floor	Sealed concrete, stained concrete or tile				
FIIIISHES	Base	Resilient or tile				
	Ceiling	Acoustical Ceiling Tile				
Plumbing		N/A				
HVAC		Air conditioned; heated; ventilation				
Fire Protection		Wet pipe sprinkler system				
Power		Per UFC 3-520-01				
Lighting		Per UFC 3-530-01				
	Tele.	N/A				
	Data	N/A				
Communication	CCTV	N/A				
	CATV	N/A				
	Security	N/A				
Acoustical Requirements		N/A				
Furnishings, Equipment and Casework		N/A				
Special Requirements		Walk-off mat at entry vestibule.				

2.4.F. Floor Plan

The floor plan below is a composite of the Modules within the approved Functional Adjacency Diagram which is based on the criteria listed within this Standard Design document. The scaled drawing showing conceptual fixture and furniture information is located within the Standard Design drawings.



DRAWINGS NOT TO SCALE

2.4.G. Interactive Programming Worksheet

This tool is provided in two formats. A snapshot of the programming sheet is provided in this section primarily as a reference and reflects the baseline standard facility program based on the criteria as discussed in this document. The additional interactive programming sheet provides a tool for planners and programmers. It allows the input of authorized personnel positions and special purpose spaces. Updated inputs are automatically calculated and provide new required square footage for each space and the estimated overall facility size.

MODULE NO.	AREA		NO. SF PER NO. OF ROOMS REQUIRED		INDIVIDUAL ROOM RQRMNTS	NET USER REQUIREMENTS	COMMENTS
					SF	SF SM	
A	ADMINISTRATION		14				
A1	ADMINISTRATION OPEN OFFICE	-		1	2,085	2,085 193.	
A2 A3	FLIGHT COMMANDER			1 1	125	125 11.6	577
AS	FLIGHT CHIEF SUBTOTAL ADMINISTRATION AREA			- 1	130	130 12.0 2,340 217.3	
В	TRAINING						
B1	TRAINING ROOM			1	1,010	1,010 93.0	
	SUBTOTAL TRAINING AREA	ب				1,010 93.	33
С	VEHICLE MAINTENANCE/ SECURE STORAGE						3
C1 C2	VEHICLE MAINTENANCE / SECURE STORAGE CAGED STORAGE			1 1	2,840 285	2,840 263.0 285 26.0	
C3	MOBILTY BASE STORAGE			i	410	410 38.0	
	SUBTOTAL VEHICLE MAINTENANCE/ SECURE STORAGE AREA					3,535 328.4	
D	MOBILITY GEAR STORAGE			1			1
D1	EMERGENCY RESPONSE / MOBILITY INDIVIDUAL EQUIPMENT STORAGE			1	1,090	1,090 101.3	
	SUBTOTAL MOBILITY GEAR STORAGE AREA	=	=		==	1,090 101.	26
E	STORAGE			1	105	405	2
E1 E2	CLASSIFIED STORAGE PRIMARY WEAPONS VAULT			1 1	195 160	195 18. 160 14.	000000
	SUBTOTALSTORAGE AREA					355 32.	
F	OPERATIONS CONTROL					V	4
F1	OPERATIONS CONTROL CENTER			1	245	245 22.	
	SUBTOTAL OPERATIONS CONTROL AREA		ullet	4		245 22.	76
G	ADMINISTRATIVE SUPPORT						
G1 G2	PHYSICAL FITNESS HAZMAT PHARMACY			1	240 145	240 22.3 145 13.4	
G3	READY ROOM			1	670	670	6
G4	LAUNDRY			1	135	135 12.5	
	SUBTOTAL ADMINISTRATIVE SUPPORT AREA	لـــــا	ldet			1,190 110.	55
Н	TOILET/SHOWER/LOCKER						1
H1 H2	MEN'S TOILET/SHOWER WOMEN'S TOILET / SHOWER			1 1	675 240	675 62. 240 22.	
H3	JANITOR			i	50	50 4.6	(3) Transfer of the control of the c
1009	SUBTOTAL TOILET / SHOWER / LOCKER AREA			,	2000	965 89.0	55
J	BUILDING SUPPORT	- 3					1
J1	MECHANICAL			1	400	400 37.	10
J2 J3	ELECTRICAL COMMUNICATIONS			1 1	130 130	130 12.0 130 12.0	10
J4	FIRE PUMP			1 1	110	110 10.3	
1	SUBTOTAL BUILDING SUPPORT AREA					770 71.	
	CIRCULATION						
	Facility Corridor	0		1	1,230	1,230 114.3	.7 8
	Entry Vestibule	0		1	65	65 6.0	0.000
	TOTAL FACILITY NET FLOOR AREA	200000				10,730 996.	32
	CIRCULATION MULTIPLIER	10%				11,805	8
	NET TO GROSS MULTIPLIER TOTAL FACILITY GROSS AREA (ROUNDED)	16%				13,695 13,700 1,272.5	10,11,12

OMMENTS

- 1 Facility Personnel Count: 40
- 2 Includes all related areas for this facility class listed in Air Force Manual 32-1084, Chapter 1 and Chapter 6.
- 3 Reference Tables in Chapter 6 of Air Force Manual 32-1084 for Administration Area sizes.
- 4 Administration Areas include circulation factor of 10% per Chapter 1 Air Force Manual 32-1084.
- 5 These are secure areas and are sized per User Justification .
- Ready Room is a Special Purpose Room as defined in Chapter 6 of AFMAN 32-1084 and can also serve as Classroom, sized per Table 6.4 Classroom (up to 75) of AFMAN 32-1084; 40 occupants mulitplied by 25 sf per occupant for a maximum of 1000 sf; portion of this area is allocated to a Recycling Room.
- 7 Male/Female ratio of 70/30. Actual fixture count shall be based on International Plumbing Code, latest editon, Chapter 29 and the UFC 3-420-01, latest edition, Plumbing Systems. This 70/30 ratio shall be verified at each installation
- 8 Circulation areas are based on Proof of Concept and a circulation multipilier of 10% per Air Force Manual 32-1084, Chapter 1, paragraph 1.10.2.
- 9 Building Support areas are estimates only and actual size is dependent on requirements for climate zone, location, system, etc. (Sq. Ft. not included in Total Concept Plan Net Floor Area as this area is included in Net to Gross Multiplier)
- 10 Per AFM 32-1084 Chapter 1, net-to-gross multiplier of up to 25%, used 16% per Standard Design Plan which would include any additional Building Support Areas that may be required. Also included in multipliers are column furr-outs and mechanical/plumbing chases.
- 11 All area SFs are rounded to the nearest whole 5 number.
- 12 This worksheet represents a facility rounded up to 13,700 Square Feet.