DESIGN CRITERIA (DC)

DRAFT AIR FORCE GENERAL MAINTENANCE/PERIODIC INSPECTION (GM/PE) HANGAR



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DESIGN CRITERIA (DC)

UNITED STATES AIR FORCE GENERAL MAINTENANCE/PERIODIC INSPECTION HANGAR

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Record of Changes (changes are indicated by \1\ ... /1/)

Change No.	Date	Location
1		

FOREWORD

Design Criteria (DC) provide functional requirements (i.e., defined by users and operational needs of a particular facility type) for specific DoD Component(s), and are intended for use with unified technical requirements published in DoD Unified Facilities Criteria (UFC). DC documents are applicable only to the DoD Component(s) indicated in the title, and do not represent unified DoD requirements. Differences in functional requirements between DoD Components may exist due to differences in policies and operational needs.

All construction outside of the United States is also governed by Status of Forces Agreements (SOFA), Host Nation Funded Construction Agreements (HNFCA), and in some instances, Bilateral Infrastructure Agreements (BIA). Therefore, the acquisition team must ensure compliance with the most stringent of the DC, the SOFA, the HNFCA, and the BIA, as applicable.

Because DC documents are coordinated with unified DoD technical requirements, they form an element of the DoD UFC system applicable to specific facility types. The UFC system is prescribed by MIL-STD 3007 and provides planning, design, construction, sustainment, restoration, and modernization criteria, and applicable to the Military Departments, Defense Agencies, and the DoD Field Activities. The UFC System also includes technical requirements and functional requirements for specific facility types, both published as UFC documents and DC documents.

DC are living documents and will be periodically reviewed, updated, and made available to users as part of the Services' responsibility for providing criteria for military construction. Headquarters, U.S. Army Corps of Engineers (HQUSACE), Naval Facilities Engineering Command (NAVFAC), and the Air Force Civil Engineer Center (AFCEC) are responsible for administration of the UFC system. Defense agencies should contact the preparing service for document interpretation and improvements. Technical content is the responsibility of the cognizant DoD working group. Recommended changes with supporting rationale should be sent to the respective service proponent office by the following electronic form: Criteria Change Request. The form is also accessible from the Internet site listed below.

DC is effective upon issuance and is distributed only in electronic media from the following source:

Whole Building Design Guide web site http://dod.wbdg.org/.

Refer to UFC 1-200-01, *General Building Requirements*, for implementation of new issuances on projects.

AUTHORIZED BY:
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DESIGN CRITERIA (DC) NEW SUMMARY SHEET

Document: DC X-XXX-XX F, GENERAL MAINTENANCE/PERIODIC INSPECTION

(GM/PE) HANGAR

Superseding: None

Description:

This DC provides requirements for evaluating, planning, programming, and designing *General Maintenance/Periodic Inspection (GM/PE) Hangars*. The information in this DC applies to the design of all new construction projects, to include additions, alterations, and renovation projects in the continental United States (CONUS) and outside the continental United States (OCONUS). 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.

Reasons for Document: This DC is the initial release to establish requirements for a *GM/PE Hangar* and defines the criteria for determining appropriately sized, flexible, cost optimized, durable, quality designed facilities on a life cycle basis to support the mission.

Impact: This DC will facilitate and standardize the design of *GM/PE Hangars* throughout the Air Force.

- It will provide more complete and consistent project requirements and will expedite the programming and design of facilities and reduce initial design cost.
- The improved performance-based criteria and coordination with the Air Force RFP Template will reduce design-build proposals.

Unification Issues: None

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CHAPTER 1 INTRODUCTION

1-1 GENERAL INFORMATION

This standard facility prototype design criteria was developed to assist AF planners in preparing and validating the 1391 requirements and to assist A-E Design Professionals with the approved project specific design requirements. It is a source of basic programming and functional information for *GM/PE Hangars*. This standard is consistent with Air Force Corporate Facility Standards (AFCFS) and Unified Facilities Criteria Documents (UFC's). This standard, in conjunction with the AFCFS, is intended to define Air Force expectations for project programming and A-E design decisions.

The standard facility prototype design program defines consistent facility requirements across the AF enterprise to expedite delivery of a facility. This Standard was designed in compliance with AFMAN 32-1084, "Facility Requirements." The objective is to deliver appropriately sized, flexible, cost optimized, durable, quality designed facilities on a life cycle basis to support the AF mission.

This standard facility prototype represents a shift in AF facility design philosophy toward maximizing the use of open office space and systems furniture. This design approach allows maximum flexibility to reconfigure the building space as mission needs change. Where offices require sound attenuation, physical, or visual separation, evaluate the use of systems furniture or demountable partition walls in lieu of full height hard wall construction. Maximizing open office space may require more systems furniture and funding must be listed on the 1391 as a FF&E cost. Comply with the latest AF policy on the centralized procurement of systems and other furniture.

1-2 GENERAL BUILDING REQUIREMENTS

Comply with UFC 1-200-01, 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 DC in addition to UFC 1-200-01 and the UFCs and government criteria referenced therein.

1-3 REFERENCES

Appendix A contains a list of Related Documents and references to be used in conjunction with this document. The publication date of the code or standard is not included. Use the latest available issuance of the reference.

1-4 INSTRUCTIONS

The standard facility prototype was developed by determining personnel counts, allowable/authorized space/room sizes, adjacency diagrams between the functional spaces and the overall facility space requirements. It establishes AF criteria for the facility type. Use these criteria in conjunction with other AF policy and regulations such as ETL's, AFI's, and UFC's when programming and designing this facility type. Supplement this DC with thorough review by individual Program Managers and

Operations Staff.

1-4.1 Standard Facility Prototype Tools

This standard facility prototype consists of four parts to be used by programmers and designers:

- 1. Design Criteria for Standard Prototype (this DC document)
- 2. Interactive Programming Sheet
- 3. Facility Building Information Modeling (BIM) Drawings
- 4. Supplemental RFP Data

1-4.2 Design Criteria

The design criteria consist of three primary components:

- 1. Notional Site
- 2. Composite Facility Adjacency Diagram(s)
- 3. Modules with associated Room Data Sheets

1-4.2.1 Notional Site

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.

1-4.2.2 Composite Facility Adjacency Diagram(s)

The composite diagram(s) represent ways to conceptually assemble the functional areas (modules) into a cohesive whole. They demonstrate how the various functional components of the facility type can be successfully placed together into layout diagrams. Individual modules are represented by different colors. Composite diagrams demonstrate acceptable ways the fixed modules can be placed together into conceptual building plans. They are not intended to be definitive building designs.

1-4.2.3 Modules

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 space program sheets located in the appendix. Information is provided in a standard presentation and data sheet format. The required space adjacencies and modules are illustrated in figures.

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. Arrange modules and create a configuration/composite building layout/plan responding to the constraints and opportunities of the specific site.

The resulting shape of the facility assembled from the standard facility prototype modules must provide construction efficiencies obtained from building proportions and overall configuration. The building footprint shall be organized and well composed. The building design must comply with the Installation Facility Standards (Architectural Compatibility Plan) and the AFCFS.

1-4.2.4 Module Flexibility/Adjustments

Modules must be used as designed to the greatest extent possible, and shall not be deconstructed or altered except as indicated herein. The intent of the standard facility prototype 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 reversed to accommodate an overall composition or site issue. When the fixed modules cannot be arranged to produce a constructible floor plan due to site constraints, it is permissible to slightly adjust a module proportion to create a constructible plan. Manipulating the module shape must not result in an overall increase in square feet or reduce the functionality of any module or the composite plan.

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.

1-4.2.5 Room Data Sheets

Specific requirements for each room, space, or area are provided on room data sheets that are located following their respective module. Information contained on the data sheets defines the functional and physical requirements for each of the spaces within the facility type.

1-4.3 Programming Sheet(s)

This tool is provided in two formats. A pdf programming sheet is provided in the appendix primarily as a reference and reflects the baseline standard facility program. 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. A link is provided in the appendix to provide direct access to the interactive tool.

1-4.4 Facility Drawings – BIM

This component of the standard facility prototype tool includes both a pdf version and Revit version of the modules and rooms. The spaces, rooms and modules shown reflect the baseline standard facility program spreadsheet located in the appendix. The drawings contained in the facility criteria document are exact copies of the larger BIM drawings and comply with the program scope. The BIM drawings provide a starting point for the digitization of building data and a starting point in the design/construction of a facility. BIM and pdf documents are found at the link provided in the appendix.

1-4.5 Request for Proposal Template

The Supplemental Request for Proposal (RFP) Data document is a standard facility prototype tool to assist the A-E design professionals to quickly proceed from establishment of an approved floor plan to development of a Design-Build RFP. The text in the RFP is color coded to identify the following:

- Black: Standard requirements; DO NOT edit/change
- Blue: Edited to reflect specific facility type elements
- Red: Must be edited by RFP Preparer to reflect site specific or locational requirements

Retain color coding during RFP development thru acceptance of the 100% Submittal. Use Track Changes to edit the draft RFP. Remove all color coding and resolve Track Changes prior to advertisement of the solicitation. A link is provided in the appendix.

1-4.6 Additional 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. However, proposed adjustments to the standard must be submitted to AFCEC for functional issues and deviations from the core requirements. Move 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 shall determine the most efficient means to balance the placement of modules within existing spaces or as a facility addition.

CHAPTER 2 SITE & OVERALL ADJACENCY

2-1 GENERAL FACILITY OVERVIEW

The GM/PE Hangar will function primarily as an inspection hangar and secondarily as a repair hangar for scheduled and un-scheduled maintenance. The GM/PE Hangar will consist of the following modules: Hangar Bay Module, Shop Support Module, Break Room Module, Administration Module, Locker/Restroom Module, Building Support Module and Electro-Environmental (E/E) Shop Module.

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.

FACILITY USERS/OCCUPANTS: For a Classic Association, the approximate number of personnel assigned to this facility is 60 with a peak shift of 30.

OPERATIONAL ASPECTS: Hours of operation for this facility will be based on the functional requirements of the Base.

2-2 NOTIONAL SITE

The site diagram represents a notional layout to reflect site development requirements/criteria only. It is not an actual site design. Siting must comply with the Installation (IDP) and Area Development Plans (ADP).

2-2.1 Site Location and Orientation

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 shall be analyzed.

Emphasis shall be placed on operation, function, and safety when siting the facility. The preferred location for this facility is immediately adjacent to the flight line or in close proximity. Other facility functions placed in close proximity may include General Purpose Maintenance Hangars and Aircraft Sunshades. Analyze and comply with airfield clearances, building setback restrictions, and line of sight restrictions from the adjacent flight-line.

The preferred orientation for this facility is such that the engine bays are provided direct access to the flight-line operations area for ease of access to the facility for flight line vehicles and equipment.

The approximate project area required for the General Maintenance Periodic Inspection Hangar *is 48.00 acres*, which includes antiterrorism standoff and parking.

2-2.2 Vehicular and Pedestrian Circulation

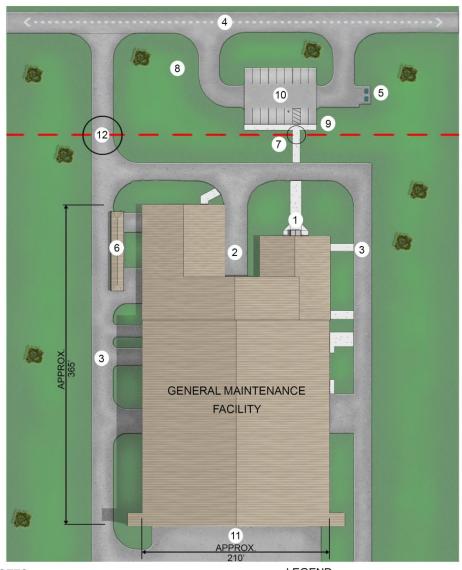
Convenient and safe vehicular access and circulation shall be provided for personal vehicles and essential services, including operations, maintenance, deliveries, trash and garbage collection, and emergency services.

Parking shall be provided to accommodate 40% of the largest shift of assigned personnel, to the facility.

Separate service drives to the facility from parking circulation areas.

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.

Figure 2-2 NOTIONAL SITE DIAGRAM



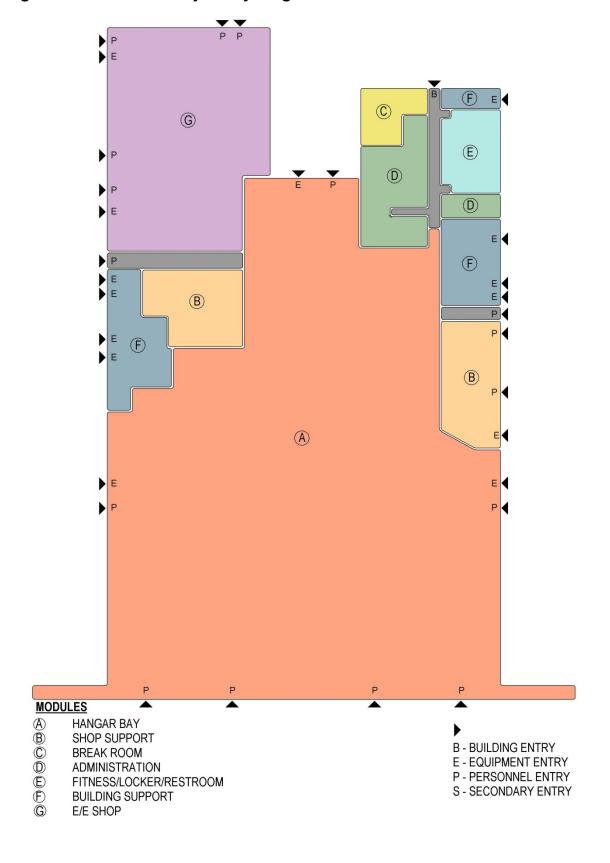
NOTES: LEGEND: PRIMARY BUILDING ENTRY AIRFIELD FENCE (EXACT 2 CONCRETE TUG PULL THRU LOCATION TO BE DETERMINED) (3) CONCRETE FIRE ACCESS LANE (20' MIN.) **EXISTING ROAD** ACCESS STREET 5 DUMPSTER ENCLOSURE WITH CONCRETE PAD 6 GOX CART COVERED PARKING CONTROLLED VEHICLE 7 PEDESTRIAN ACCESS CONTROL POINT ACCESS 8 STANDARD B-3 SIGN 9 6' WIDE CONCRETE SIDEWALK (MIN.)

(10) HEAVY DUTY ASPHALT PAVEMENT
 (11) CONCRETE HANGAR ACCESS APRON
 (12) CONTROLLEDVEHICLE ACCESS

2-3 COMPOSITE FACILITY ADJACENCY

This facility has a mixed use of occupants and many points of entry. The majority of administration personnel will enter the facility through the main building entrance. Shop personnel and maintenance groups will primarily enter the facility from the flight line points of entry or directly into the E/E Shop.

Figure 2-3 Functional Adjacency Diagram



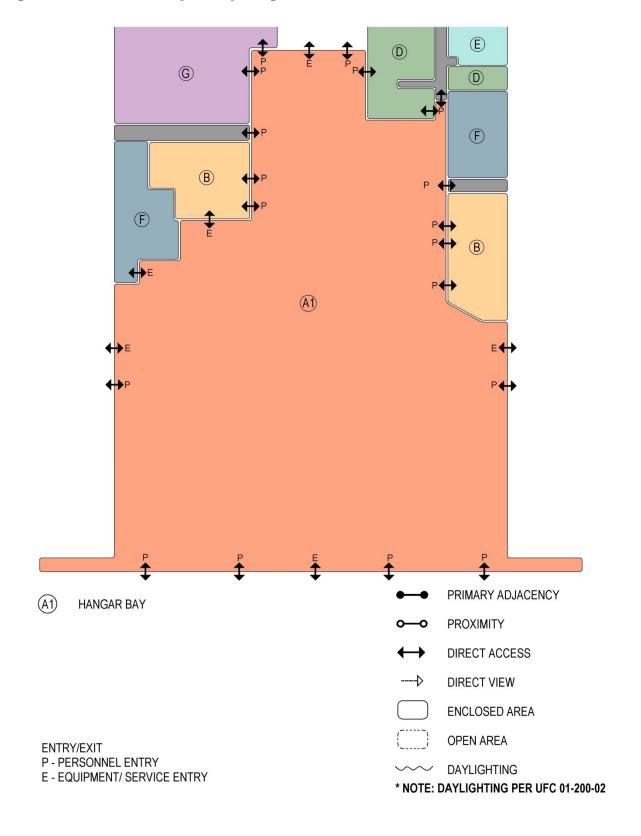
CHAPTER 3 FACILITY REQUIREMENTS & CRITERIA

3-1 MODULE A – HANGAR BAY MODULE

3-1.1 Function and Adjacency

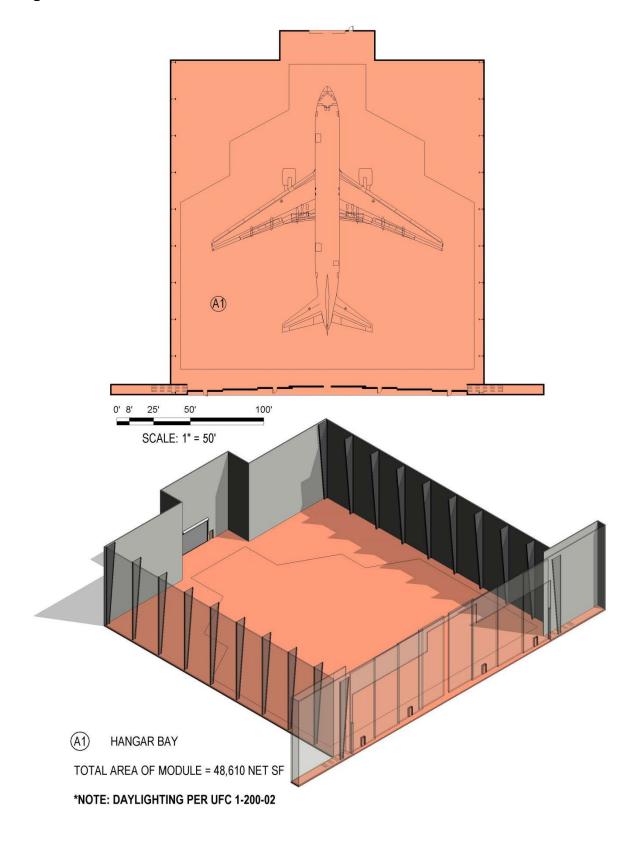
The Hangar Bay will be the central focus of the facility with the remaining modules being placed around it. A portion of the hangar bay will be designated for the parking of inspection stands, forklifts, and other equipment; however, no storage room is required for moveable equipment. The Hangar Bay must be conveniently located to the Locker/Restroom module and have direct access to the Shop Support and E/E Shop Modules.

Figure 3-1 Module A Adjacency Diagram



3-1.2 Hangar Bay

Figure 3-2 Module A Floor Plan & Axonometric



3-1.3 Data Sheets

Figure 3-3		A1 Hangar Bay Room Data Sheet
Description/Usage		The Hangar Bay requires space for an engine transport trailer and an engine lift trailer. Engine changes are performed inside the Hangar to avoid complications due to wind and other natural hindrances. A portion of the Hangar will be designated for the parking of inspection stands, forklifts, and other equipment; however, no storage room is required for moveable equipment.
Ceiling Height		Exposed to structure
Windows		Daylighting
	Туре	Overhead insulated coiling door, 18'x20' Insulated metal exterior door, 3'x7'
Doors	Security/ Hardware	Access control rim exit PA closer
	View Panels/ Kick-Plates	Kick-plates
	Walls	CMU – painted, Structural insulated wall panels – painted
Finishes	Floor	Sealed concrete
Finishes	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		Emergency shower stations, compressed air (oil free shop air) with hose reels
HVAC		55°F Heating, Ventilate to 6 ACH up to 15 foot imaginary ceiling, Fuel low level Exhaust
Fire Protection		Foam Generators, Fire alarm/mass notification, sprinklers
Power		Convenience Outlets, 180kVA 400Hz Converter, Pedestal Pit with Welding Receptacle, 400Hz Receptacle, and 120V power, Overhead Door Motors, Dedicated Equipment Outlets, Hangar Bay Door Motors
Lighting		Highbay Fluorescent Fixtures
	Tele.	Wall Phone
	Data	Wireless Access Points
Communication	CCTV	N/A
	CATV	N/A
	Security	Infrared Intrusion Detection at Hangar and roll up doors, Card Reader, Balanced Magnetic Switch, Electric Strike, Request to Exit Device
Acoustical		Min. STC 40 between the Hangar Bay and regularly occupied areas.
Furnishings/Equipment/ Casework		
Special Requirements		Hangar walls shall comply with ETL 02-15, Section A1.1

3-2 MODULE B – SHOP SUPPORT MODULE

3-2.1 Function and Adjacency

The Shop Support Module areas do not require direct adjacency to each other and can therefore provide added flexibility in their potential arrangements. All Shop Support areas must have direct access to the Hangar Bay. The Shops are required to have convenient to the Locker/Restroom Module and the Coordinator Office within the Administration Module.

Figure 3-4 Module B Adjacency Diagram (1 of 2)

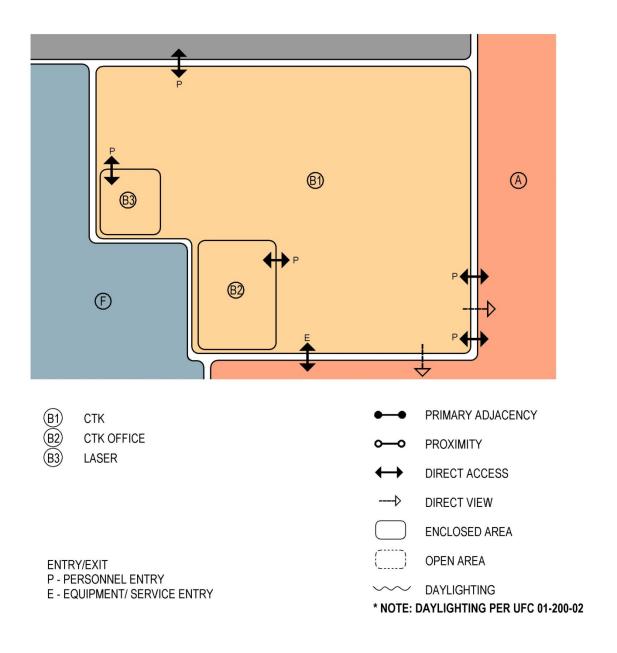
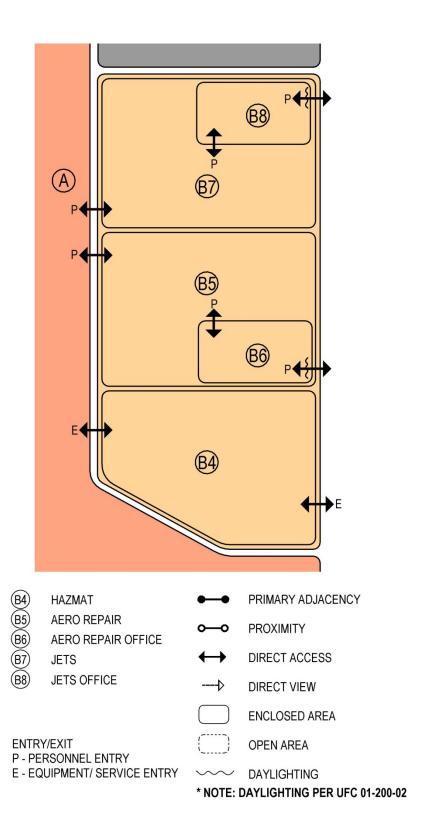
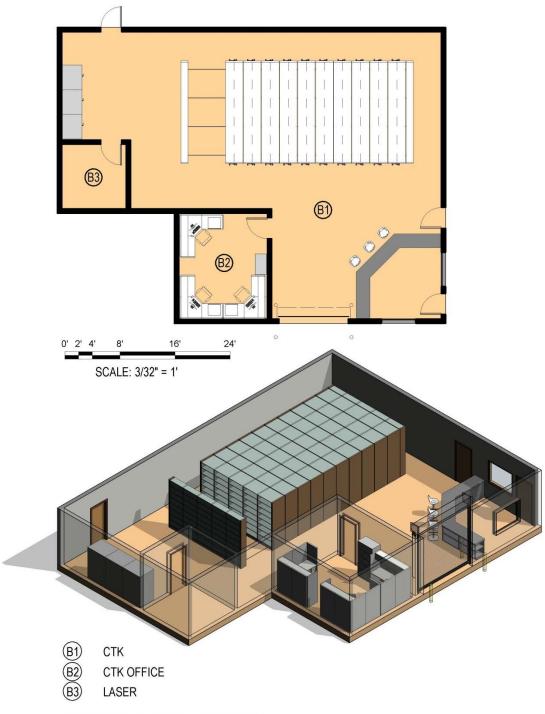


Figure 3-5 Module B Adjacency Diagram (2 of 2)



3-2.2 Shop Support

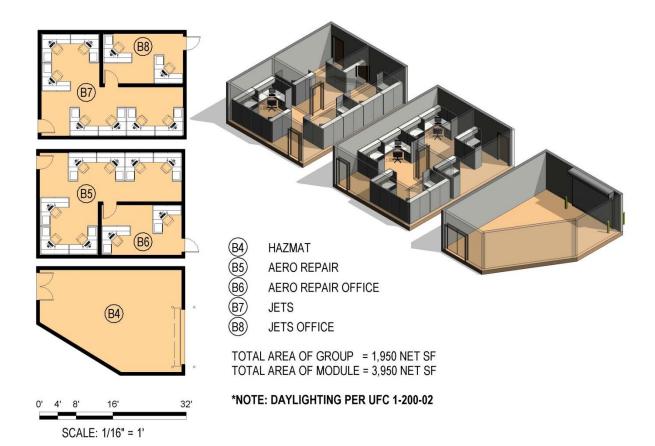
Figure 3-6 Module B Floor Plan & Axonometric (1 of 2)



TOTAL AREA OF GROUP = 2,000 NET SF

*NOTE: DAYLIGHTING PER UFC 1-200-02

Figure 3-7 Module B Floor Plan & Axonometric (2 of 2)



3-2.3 Data Sheets

Figure 3-8		B1 CTK Room Data Sheet
Description/Usage		CTK will house tools and equipment to be checked out by aircraft maintenance personnel. This room requires a secure tool checkout counter with controlled entry into the storage bay.
Ceiling Height		10'-0" minimum
Windows		Visual access to the hangar bay
	Туре	Insulated metal, 3'x7' Overhead insulated coiling door, 10'x8'
Doors	Security/	Keyed lock set
Doors	Hardware	Card reader
	View Panels/	
	Kick-Plates	Kick-Plates
	Walls	CMU - painted
 Finishes	Floor	Sealed Concrete
i illisiles	Base	No base
	Ceiling	Exposed to Structure - painted
Plumbing		Emergency Eyewash, Industrial hand wash
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Outlets for Charging Stations, Power for Overhead Door Motors, Power for Motorized Tool Storage Rack, Dedicated Equipment Outlets
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets, Charging Station Outlets
Communication	CCTV	N/A
	CATV	CATV Outlets
	Security	Card Reader
Acoustical Requirements		N/A
Furnishings/Equipment/ Casework		High density storage rack system Built in checkout counter with lockable rolling doors to counter Stools at checkout counter Hazmat storage cabinets
Special Requirements		

Figure 3-9		B2 CTK Office Room Data Sheet
		The CTK Office will house an administrator for CTK. This office
Description/Usage		requires direct access to the CTK.
Ceiling Height		9'-0"
Windows		N/A
	Туре	Insulated metal, 3'x7'
Doors	Security/	Keyed lock
D0013	Hardware	
	View Panels/	View panel
	Kick-Plates	Kick-plates
	Walls	CMU-painted
Finishes	Floor	VCT
i illisiles	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	N/A
Acoustical Requirements		STC 45
Furnishings/Equipment/ Casework		(3) L-shaped desks, ergonomic task chairs, file cabinet, wall clock, marker board, cork board, 4 gal trash can, 4 gal recycle bin
Special Requirements		

Figure 3-10		B3 Laser Room Data Sheet
		The Laser Room will house the facility's on-site laser machine.
Description/Usage		
, , ,	•	
Ceiling Height		9'-0"
Windows		N/A
	Туре	Hollow metal, 3'x7'
Doors	Security/ Hardware	Standard classroom lockset
	View Panels/ Kick-Plates	Kick-Plates
	Walls	CMU - painted
Finishes	Floor	Sealed Concrete
rinishes	Base	Resilient
	Ceiling	Exposed to structure-painted
Plumbing		N/A
HVAC		Exhaust hood, 78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, Sprinklers
Power		Convenience Outlets, Outlets for Dedicated Equipment
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		STC 45
Furnishings/Equipment/ Casework		
Special Requirements		

Figure 3-11		B4 Hazmat Room Data Sheet
Description/Usage		The Hazmat room will store hazardous material. Hazmat requires direct physical access to the Hangar Bay and exterior.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Hollow metal, 3'x7' pair Overhead coiling door, 10'x11'-10"
Doors	Security/ Hardware	Exit device, closer
	View Panels/ Kick-Plates	Kick-Plates
	Walls	CMU-painted
 Finishes	Floor	Sealed concrete
Fillisties	Base	Resilient
	Ceiling	Exposed to structure-painted
Plumbing		N/A
HVAC		Exhaust, 55°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, Sprinklers
Power		Convenience Outlets, Outlets for Dedicated Equipment
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Wallphone Outlet
	Data	Wall Outlets
Communication	CCTV	N/A
	CATV	N/A
	Security	Balanced Magnetic Switch, Card Reader, Electronic Strike for Exterior Openings
Acoustical Requirements		N/A
Furnishings/Equipment/ Casework		
Special Requirements		

Figure 3-12		B5 Aero Repair Room Data Sheet
Description/Usage		The Aero repair room will function as a support office for the GM/PE Hangar. This room requires direct access to the hangar bay and the Aero Repair Office.
Ceiling Height		9'-0"
Windows		N/A
	Туре	Insulated Metal, 3'x7'
Doors	Security/ Hardware	Access control mort lock
	View Panels/ Kick-Plates	Kick-Plates
	Walls	CMU - painted
Finishes	Floor	VCT
Finishes	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire alarm/mass notification, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlets
	Security	N/A
Acoustical Requirements		STC 45
Furnishings/Equipment/ Casework		Systems furniture to accommodate (7) personnel, ergonomic chairs, wall clock, marker board, cork board, 4 gal trash can at each desk, 4 gal recycle bin at each desk.
Special Requirements		

Figure 3-13		B6 Aero Repair Office Room Data Sheet
Description/Usage		The Aero Repair Office will house the Aero Repair supervisors and requires direct access to the Aero Repair room.
Ceiling Height		9'-0"
Windows		N/A
	Туре	Hollow Metal, 3'x7' - Class room lockset Aluminum Storefront, 3'x7' Access control rim exit, card reader
Doors	Security/ Hardware	Entry lock
	View Panels/ Kick-Plates	Kick-Plates
	Walls	CMU - painted
Finishes	Floor	VCT
l illisiles	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire alarm/mass notification, sprinklers
Power		Workstation Outlets, Convenience Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Jack at each workstation
	Data	Workstation Outlets, Wallphone Outlet
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	Card Reader, Balanced Magnetic Switch, and Electronic Strike
Acoustical Requirements		STC 45
Furnishings/Equipment/ Casework		(2) L-shaped desks, ergonomic task chairs, file cabinets, wall clock, marker board, cork board, 4 gal trash can at each desk, 4 gal recycle bin at each desk
Special Requirements		

Figure 3-14		B7 Jets Room Data Sheet
Description/Usage		The Jets room will function as a support office for the GM/PE Hangar.
Ceiling Height		9'-0"
Windows		N/A
Doors	Туре	Insulated metal, 3'x7'
	Security/ Hardware	Access control mort lock
	View Panels/ Kick-Plates	Kick-Plates
	Walls	CMU - painted
Finishes	Floor	VCT
Finishes	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire alarm/mass notification, sprinklers
Power		Workstation Outlets, Convenience Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	N/A
Acoustical Requirements		STC 45
Furnishings/Equipment/ Casework		(7) L-shaped desks, ergonomic chairs, wall clock, marker board, cork board, 4 gal trash can at each desk, 4 gal recycle bin at each desk
Special Requirements		

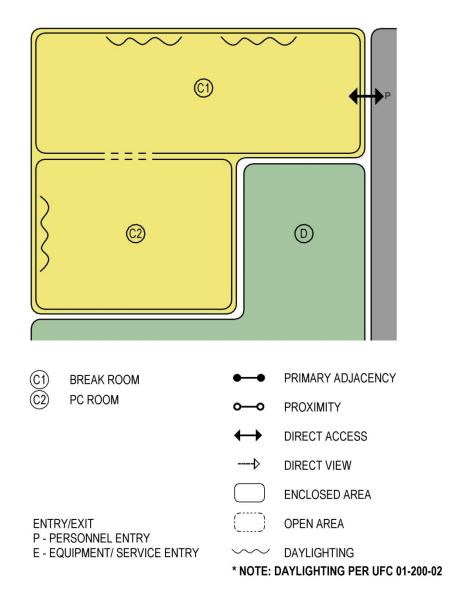
Figure 3-15		B8 Jets Office Room Data Sheet
Description/Usage		The Jets Office will house the Jets supervisors and requires direct access to the Jets room.
Ceiling Height		9'-0"
Windows		N/A
Doors	Туре	Hollow Metal, 3'x7' - Class room lockset Aluminum Storefront, 3'x7' Access control rim exit, card reader
	Security/ Hardware	Standard classroom lockset
	View Panels/ Kick-Plates	Kick-Plates
	Walls	CMU - painted
Finishes	Floor	VCT
i illisiles	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire alarm/mass notification, sprinklers
Power		Workstation Outlets, Convenience Outlets
Lighting	-	Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	Card Reader, Balanced Magnetic Switch, and Electronic Strike
Acoustical Requirements		STC 45
Furnishings/Equipment/ Casework		(2) L-shaped desks, ergonomic task chairs, file cabinets, wall clock, marker board, cork board, 4 gal trash can at each desk, 4 gal recycle bin at each desk
Special Requirements		

3-3 MODULE C – BREAK ROOM MODULE

3-3.1 Function and Adjacency

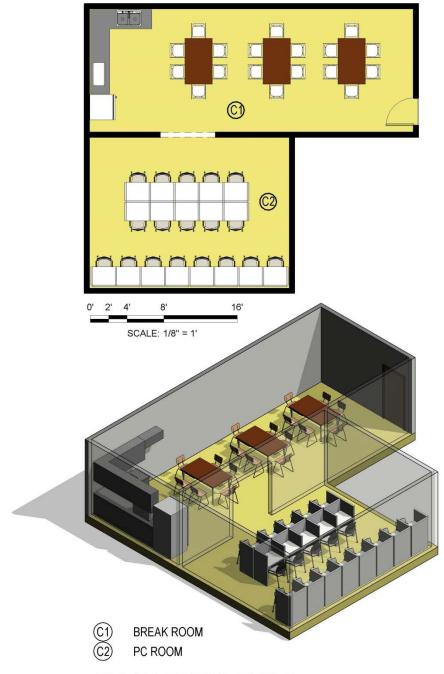
This module is required to be easily accessible for all personnel. This module will include a break room with seating and tables for sixteen to twenty (16-20) personnel and a PC area with eighteen to twenty (18-20) carrels where personnel can access time sheets and internet at the end of shifts.

Figure 3-16 Module C Adjacency Diagram



3-3.2 Break Room

Figure 3-17 Module C Floor Plan & Axonometric



TOTAL AREA OF MODULE = 840 NET SF

*NOTE: DAYLIGHTING PER UFC 1-200-02

3-3.3 Data Sheets

Figure 3-18		C1 Break Room Data Sheet
Description/Usage		The Break Room will primarily function as a clean eating place for GM/PE personnel with seating and tables for sixteen to twenty (16-20) personnel.
Ceiling Height		9'-0"
Windows		Daylighting
Doors	Туре	Solid core wood, 3'x7'
	Security/ Hardware	Passage set, closer
	View Panels/	View panel
	Kick-Plates	Kick-plates
	Walls	Gyp board – painted, tile backsplash from countertop to bottom of overhead cabinets
Finishes	Floor	Ceramic or porcelain tile
	Base	Tile cove base to match floor
	Ceiling	ACT or painted gyp board
Plumbing		Double sink with disposal Ice maker/water dispenser for refrigerator Dishwasher Floor drains
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Countertop Outlets, Convenience Outlets, Outlets for Dedicated Equipment
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Wallphone Outlet
	Data	Wall Outlets, Wireless Access Points
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	Glass Break for Windows
Acoustical Requirements		STC 40 if between occupied spaces
Furnishings/Equipment/ Casework		Seating for 16-20 people; refrigerator, microwave, dishwasher, double sink with disposal, vending machines, two wall mounted video monitors, (2) 23 gal recycle bins, 23 gal trash can with lid, cork board and marker board.
Special Requirements		

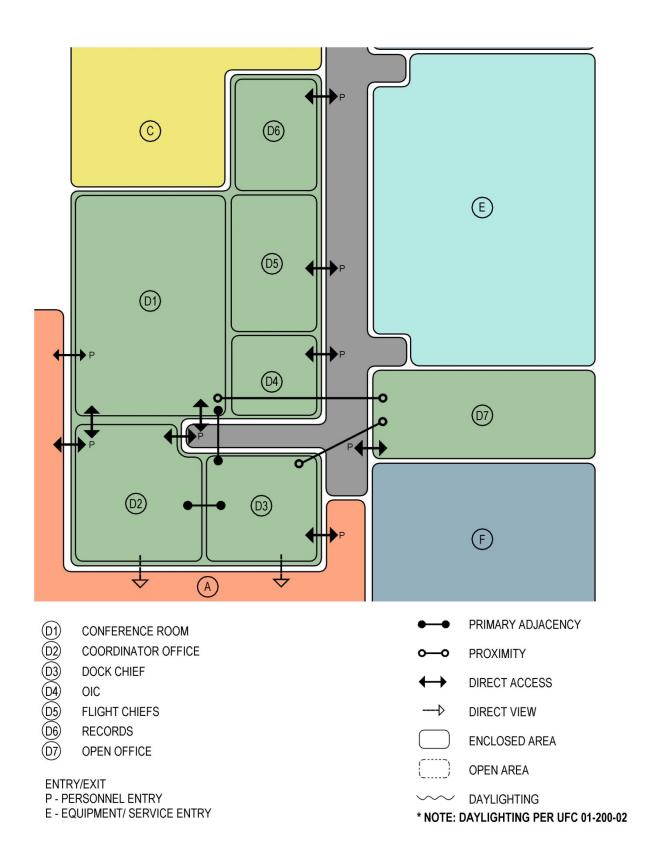
Figure 3-19		C2 PC Room Data Sheet
Description/Usage		The PC Room will provide eighteen to twenty (18-20) carrels for personnel to access time sheets and internet at the end of their shift.
Ceiling Height		9'-0"
Windows		Daylighting
Doors	Туре	N/A
	Security/ Hardware	N/A
	View Panels/ Kick-Plates	N/A
	Walls	GWB - painted
Finishes	Floor	Ceramic or porcelain tile
rinishes	Base	Tile cove base to match floor
	Ceiling	ACT or painted GWB
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire alarm/mass notification, sprinklers
Power		Workstation Outlets, Convenience Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	Glass Break Sensor for Windows
Acoustical Requirements		N/A
Furnishings/Equipment/ Casework		Carrel workstations, ergonomic task chairs, 23 gal recycle bin, 23 gal waste receptacle, cork board and marker board, wall clock.
Special Requirements		

3-4 MODULE D – ADMINISTRATION MODULE

3-4.1 Function and Adjacency

The Administration Module areas do not require direct adjacency to each other and can therefore provide added flexibility in their potential arrangements. The Coordinator Office and Dock Chief require direct visual and physical access to the Hangar Bay module. The Administration Module as a whole needs to be conveniently located near the Lockers/Showers, while the Coordinator Office needs to be located conveniently to the Shop Support Module.

Figure 3-20 Module D Adjacency Diagram



3-4.2 Administration

Figure 3-21 Module D Floor Plan & Axonometric (1 of 2)

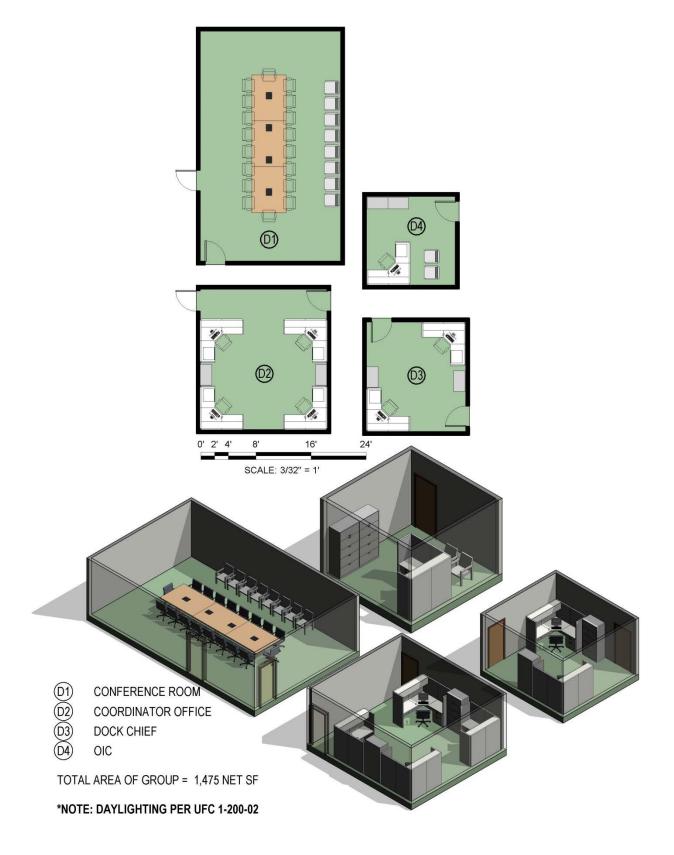


Figure 3-22 Module D Floor Plan & Axonometric (2 of 2)



TOTAL AREA OF MODULE = 2,050 NET SF

3-4.3 Data Sheets

Figure 3-23		D1 Conference Room Data Sheet
Description/Usage		The Conference room shall accommodate at least twenty (20) people for daily pre-dock meetings and ten to fifteen (10-15) people for daily post-dock meetings. This room should be located next to the Dock Chief and Dock Coordinator offices.
Ceiling Height		9'-0"
Windows		N/A
	Туре	Solid core wood, 3'x7" Insulated metal, 3'x7'
Doors	Security/ Hardware	Standard classroom lockset
	View Panels/ Kick-Plates	Kick-Plates
	Walls	GWB - painted
Finishes	Floor	Carpet Tile
Fillisties	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Wall Outlets, Floor Outlets
Lighting		Recessed Indirect Fluorescent Fixtures, Recessed Downlights
	Tele.	Wall Outlets, Floor Outlets, Wallphone Outlet
	Data	Wall Outlets, Floor Outlets, VTC
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	N/A
Acoustical Requirements		STC 45 minimum
Furnishings/Equipment/ Casework		Conference table, executive conference chairs, side chairs, credenza, display board, wall clock, 4 gal trash can at each door, 4 gal recycle bin at each door
Special Requirements		

Figure 3-24		D2 Coordinator Office Room Data Sheet
Description/Usage		The Coordinator Office controls the switchboards for the Hangar Bay. AC maintainers will report to this office before going to the shops or Hangar Bay. This office consists of four (4) workstations, all the same size and layout. This office should be located next to the Dock Chief and Conference Room.
Ceiling Height		9'-0"
Windows		Requires view to Hangar Bay
	Туре	Solid core wood, 3'x7' Insulated metal, 3'x7'
Doors	Security/	Standard classroom lockset
Doors	Hardware	
	View Panels/ Kick-Plates	Kick-Plates
	Walls	GWB - painted
Finishes	Floor	VCT
Fillisties	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	N/A
Acoustical Requirements		STC 39 minimum
Furnishings/Equipment/ Casework		(4) L-shaped desks, ergonomic task chairs, lateral file cabinets, wall clock, marker board, cork board, 4 gal trash can at each desk, 23 gal recycle bin
Special Requirements		

Figure 3-25		D3 Dock Chief Room Data Sheet
Description/Usage		The Dock Chief office will house the Dock Chief and one (1) assistant. This office will require SIPRnet and NIPRnet and should be located next to the Coordinator Office and Conference Room
Ceiling Height		9'-0"
Windows		Requires view to Hangar Bay
	Туре	Solid core wood, 3'x7' Insulated metal, 3'x7'
Doors	Security/ Hardware	Standard classroom lockset
	View Panels/ Kick-Plates	Kick-Plates
	Walls	GWB - painted
Finishes	Floor	vст
Fillisties	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Telephone Jack required at each workstation
	Data	SIPRnet and NIPRnet
Communication	CCTV	N/A
	CATV	CATV Outlet
Security		N/A
Acoustical Requirements		STC 39 minimum
Furnishings/Equi Casework	pment/	(2) L-shaped desks, ergonomic task chairs, lateral filing cabinets, wall clock, marker board, cork board, 4 gal trash can at each desk, 23 gal recycle bin
Special Requirements		

Figure 3-26		D4 OIC Room Data Sheet
Description/Usage		This room will serve as office space for the facility's OIC (Officer In Charge).
Ceiling Height		9'-0"
Windows		N/A
	Туре	Solid core wood, 3'x7'
Doors	Security/ Hardware	Entry lock
	View Panels/ Kick-Plates	N/A
	Walls	GWB-painted
 Finishes	Floor	VCT
l illisites	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	N/A
Acoustical Requirements		STC 39
Furnishings/Equipment/ Casework		L-shaped desk, ergonomic task chair, guest chair, lateral file cabinet, wall clock, marker board, cork board, 4 gal trash can, 4 gal recycle bin
Special Requirements		

Figure 3-27		D5 Flight Chiefs Room Data Sheet
Description/Usage		The Flight Chiefs Room will serve as office space for the facility's Flight Chiefs.
Ceiling Height		9'-0"
Windows		N/A
	Туре	Solid core wood, 3'x7'
Doors	Security/ Hardware	Entry lock
	View Panels/ Kick-Plates	N/A
	Walls	GWB-painted
 Finishes	Floor	VCT
limines	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	N/A
Acoustical Requirements		STC 39
Furnishings/Equipment/ Casework		Systems furniture to accommodate (4) personnel, ergonomic task chairs, lateral file cabinets, wall clock, marker board, cork board, 4 gal trash can at each desk, 23 gal recycle bin
Special Requirements		

Figure 3-28		D6 Records Room Data Sheet
Description/Usage		The Records room will contain lateral files for storing maintenance records and a copier/printer connection.
Ceiling Height		9'-0"
Windows		N/A
	Туре	Solid core wood, 3'x7'
Doors	Security/ Hardware	Storeroom lockset Reg closer
	View Panels/ Kick-Plates	Kick-Plate
	Walls	GWB-painted
Finishes	Floor	VCT
Fillisties	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	N/A
Acoustical Requirements		STC 39
Furnishings/Equipment/ Casework		Systems furniture for (2) personnel ergonomic task chairs, printer/copier/fax machine, document shredder, storage for printing and office supplies, lockable lateral file cabinets, wall clock, marker board, cork board, 4 gal trash can at each desk, 23 gal recycle bin
Special Requirements		

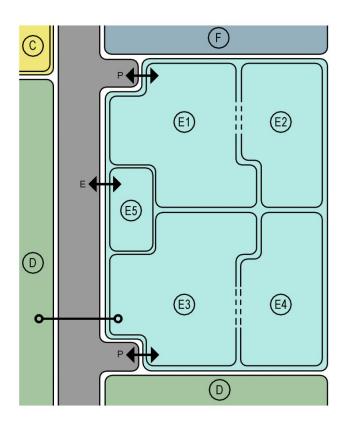
Figure 3-29		D7 Open Office Room Data Sheet
Description/Usage		The Open Office will provide office space for GM/PE staff.
Ceiling Height		9'-0"
Windows		Daylighting
	Туре	Solid core wood, 3'x7'
Doors	Security/	Entry lock
Doors	Hardware	
	View Panels/ Kick-Plates	N/A
	Walls	GWB-painted
Finishes	Floor	VCT
rinishes	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV Outlet
	Security	N/A
Acoustical Requirements		STC 39
Furnishings/Equipment/ Casework		Systems furniture to accommodate (4) personnel, ergonomic task chairs, lateral filing cabinets, wall clock, marker board, cork board, 4 gal trash can at each desk, 23 gal recycle bin
Special Requirements		

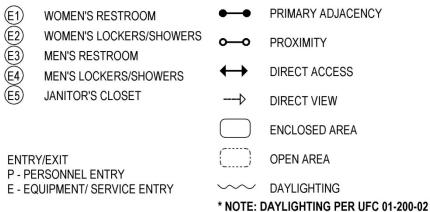
3-5 MODULE E – LOCKER/RESTROOM MODULE

3-5.1 Function and Adjacency

This module shall be easily accessible for all personnel. Place this module in a centralized location with direct access from the building's main corridor. The locker rooms should be conveniently located to Shop Support, Administrative, and Hangar Bay Modules. Determine if restrooms will need to function as storm shelters per ICC-500 and FEMA P361 Safe Rooms.

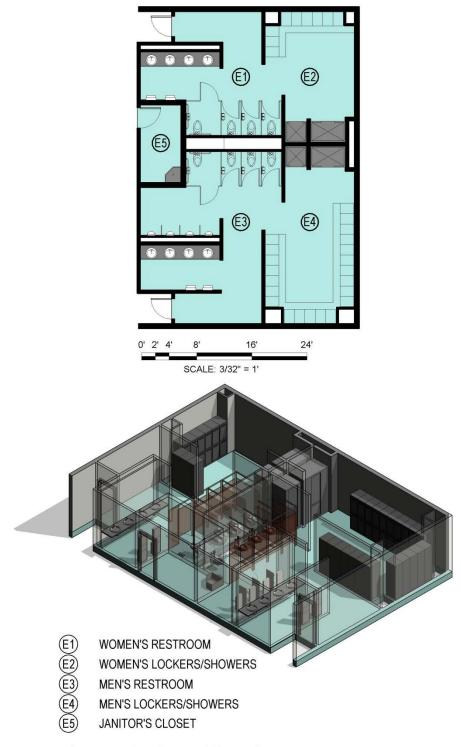
Figure 3-30 Module E Adjacency Diagram





3-5.2 Locker/Restroom

Figure 3-31 Module E Floor Plan & Axonometric



TOTAL AREA OF MODULE = 1,235 NET SF

3-5.3 Data Sheets

Figure 3-32		E1-E4 Lockers/Restrooms Room Data Sheets
Description/Usage		The Lockers/Restrooms serve all personnel in the facility. Locker rooms will include enough lockers for all full-time and part-time personnel to have a dedicated locker. Include a Janitor Closet near restrooms with a floor sink and mop/broom hooks. Determine if restrooms will need to function as storm shelters per ICC-500 and FEMA P361 Safe Rooms.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	3' x 7' solid core wood; Closers on all doors
Doors	Security/ Hardware	N/A
	View Panels/ Kick-Plates	Kick-plates
	Walls	Moisture resistant GWB full-height in locker rooms, tile wainscot to 5' A.F.F. with moisture resistant GWB above in restrooms and full-height tile in showers.
Finishes	Floor	Ceramic or porcelain tile
	Base	Tile cove base to match floor
	Ceiling	Moisture resistant GWB - painted
Plumbing		Sinks; toilets; urinals; floor drains in Shower and Locker areas
HVAC		68°F Heating, indirect Air Conditioning, Exhaust
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Convenience Outlets, Connection for electronic Flushes and Sinks
Lighting		Recessed Indirect Fluorescent Fixtures, Downlights
	Tele.	N/A
	Data	N/A
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requirements		STC 50 minimum
Furnishings/Equipment/ Casework		Fixture count shall be determined by number of building occupants at maximum load; wall mounted toilets and urinals; wall mounted baby changing stations; Double-height lockers 18"Wx24"D (min. 44 in Men and 18 in Women)
Special Requirements		Moisture resistant gypsum board throughout Line of sight shall be blocked from corridors

3-6 MODULE F- BUILDING SUPPORT MODULE

3-6.1 Function and Adjacency

The Mechanical, Electrical and Communications rooms shall be placed on an exterior wall away from the building's main entrance with exterior entry doors. SIPR and Storage rooms require interior access. SIPRnet and CER rooms need to be located near Administrative areas.

Figure 3-33 Module F Adjacency Diagram (1 of 2)

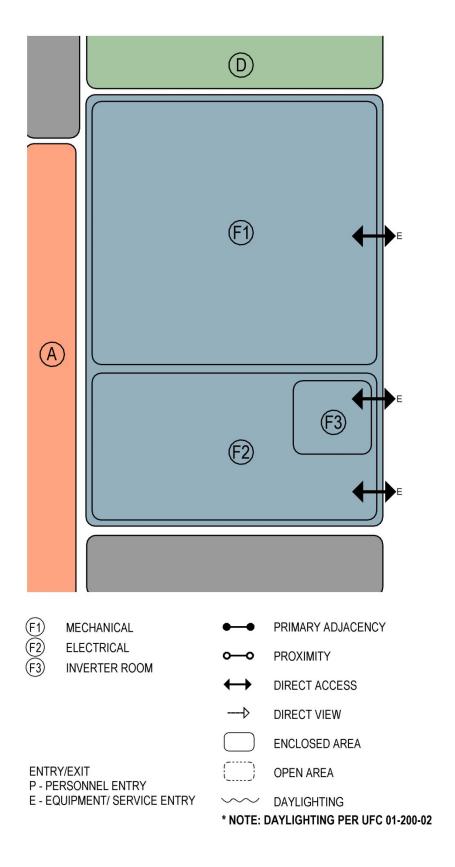
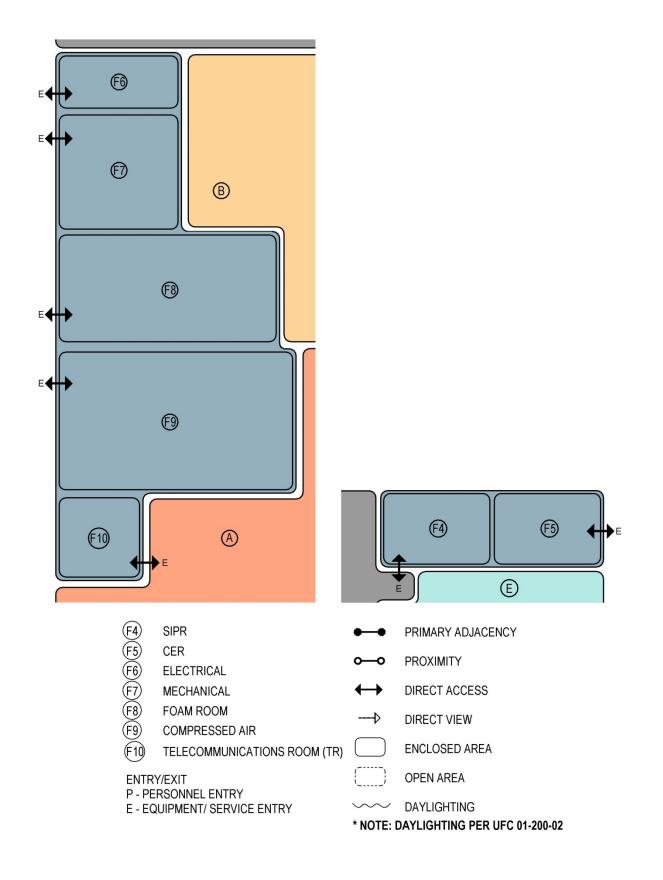


Figure 3-34 Module F Adjacency Diagram (2 of 2)



3-6.2 Building Support

Figure 3-35 Module F Floor Plan & Axonometric (1 of 2)

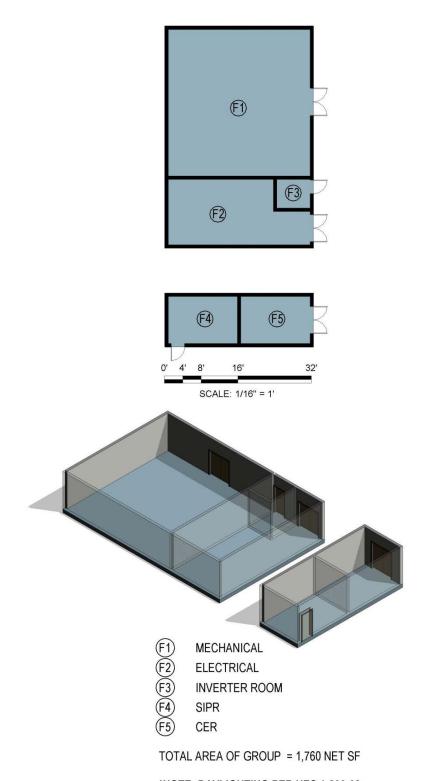
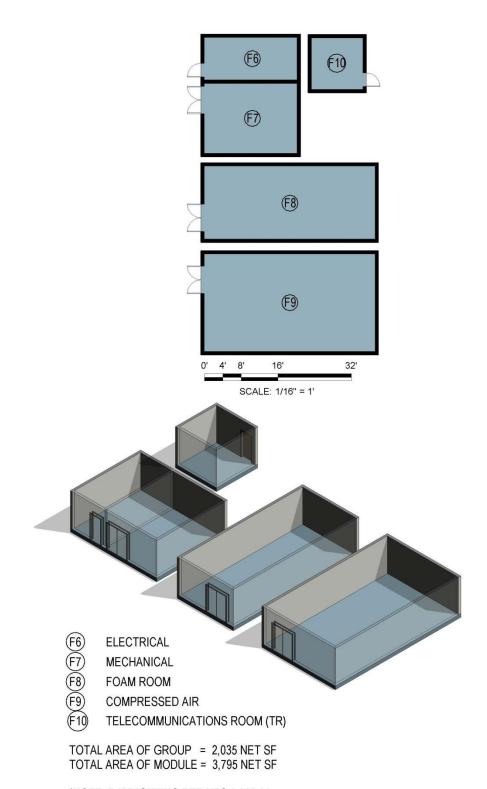


Figure 3-36 Module F Floor Plan & Axonometric (2 of 2)



3-6.3 Data Sheets

Figure 3-37		F1-F2, F6-F7 Mechanical and Electrical Room Data Sheets
Description/Usage		Due to the large area of the GM/PE Hangar, multiple Mechanical and Electrical rooms are required to minimize run distances and duct sizing.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7' Insulated metal, 3'x7' pair
Doors	Security/ Hardware	Access control mort lock
	View Panels/ Kick-Plates	Kick-plates
	Walls	CMU-painted
 Finishes	Floor	Sealed concrete
rillislies	Base	No base
	Ceiling	Open to structure
Plumbing		Floor drains, make-up water
HVAC		55°F heating, ventilation to maintain maximum 10°F change from ambient
Fire Protection		Fire Alarm/Mass Notification, wet pipe sprinklers
Power		Convenience Outlets, Dedicated Equipment Outlets, Rack Mounted Outlets
Lighting	,	Chain Hung or Surface mounted Fluorescent Fixtures
	Tele.	Wallphone
	Data	Wall Outlet for EMCS and DDC controls.
Communication	CCTV	N/A
	CATV	N/A
	Security	Balanced Magnetic Switches, Electronic Strike, and card reader for doors
Acoustical Requirements		STC 50 minimum between building support and office spaces
Furnishings/Equipment/ Casework		
Special Requirements		Fire rated walls are required around the mechanical room

Inverter room	Figure 3-38		F3 Inverter Room Data Sheet
Ceiling Height 9'-0" minimum (clear) Windows N/A Type Insulated metal, 3'x7' Security/ Hardware PA closer View Panels/ Kick-Plates Walls CMU - painted Floor Sealed concrete Base Resilient Ceiling Exposed to structure-painted Plumbing N/A HVAC Battery exhaust system, 72°F Cooling (maximum 55°F dewpoint)/68°F Heating Fire Protection Fire Alarm/Mass Notification, wet pipe sprinklers Power Convenience Outlets, Dedicated Equipment Outlets Lighting Chain Hung or Surface mounted Fluorescent Fixtures Tele. Wallphone Data Wall Outlet CCTV N/A CATV N/A Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements STC 50 minimum between building support and office spaces Fire rated walls and doors required in storage rooms over 100 sf			Inverter room
Type	Description/Usage		
Type			
Type	Ceiling Height		9'-0" minimum (clear)
Type			
Doors Security/ Hardware	Williaows		
Hardware PA closer		Туре	msulated metal, 3 x7
Hardware PA closer	Doors	Security/	
Kick-Plates Walls CMU - painted	Doors	Hardware	PA closer
Finishes Walls		•	Kick-plates
Finishes Floor Base Resilient Ceiling Exposed to structure-painted Plumbing N/A HVAC Battery exhaust system, 72°F Cooling (maximum 55°F dewpoint)/68°F Heating Fire Protection Fire Alarm/Mass Notification, wet pipe sprinklers Power Convenience Outlets, Dedicated Equipment Outlets Lighting Tele. Wallphone Data Wall Outlet CCTV N/A CATV N/A Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf			
Base Resilient		Walls	CMU - painted
Resilient Exposed to structure-painted	Finishes	Floor	Sealed concrete
Plumbing HVAC Battery exhaust system, 72°F Cooling (maximum 55°F dewpoint)/68°F Heating Fire Protection Power Convenience Outlets, Dedicated Equipment Outlets Lighting Tele. Wallphone Data Wall Outlet CCTV N/A CATV Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements STC 50 minimum between building support and office spaces Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf	1 misries	Base	Resilient
HVAC Battery exhaust system, 72°F Cooling (maximum 55°F dewpoint)/68°F Heating Fire Protection Fire Alarm/Mass Notification, wet pipe sprinklers Convenience Outlets, Dedicated Equipment Outlets Chain Hung or Surface mounted Fluorescent Fixtures Tele. Wallphone Data Wall Outlet CCTV N/A CATV N/A Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements STC 50 minimum between building support and office spaces Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf		Ceiling	Exposed to structure-painted
Fire Protection Fire Alarm/Mass Notification, wet pipe sprinklers Convenience Outlets, Dedicated Equipment Outlets Chain Hung or Surface mounted Fluorescent Fixtures Tele. Wallphone Data Wall Outlet CCTV N/A CATV N/A Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements STC 50 minimum between building support and office spaces Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf	Plumbing		·
Power Convenience Outlets, Dedicated Equipment Outlets Chain Hung or Surface mounted Fluorescent Fixtures Tele. Wallphone Data Wall Outlet CCTV N/A CATV N/A Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements STC 50 minimum between building support and office spaces Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf	HVAC		· · · · · · · · · · · · · · · · · · ·
Communication Tele. Wallphone Data Wall Outlet CCTV N/A CATV N/A Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf	Fire Protection		Fire Alarm/Mass Notification, wet pipe sprinklers
Tele. Wallphone Data Wall Outlet CCTV N/A CATV N/A Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements STC 50 minimum between building support and office spaces Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf	Power		Convenience Outlets, Dedicated Equipment Outlets
Communication Data Wall Outlet CCTV N/A CATV N/A Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements STC 50 minimum between building support and office spaces Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf	Lighting		Chain Hung or Surface mounted Fluorescent Fixtures
CCTV N/A CATV N/A Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements STC 50 minimum between building support and office spaces Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf		Tele.	Wallphone
CATV Security Security Salanced Magnetic Switches, Electronic Strike, and card reader for doors		Data	Wall Outlet
CATV Security Balanced Magnetic Switches, Electronic Strike, and card reader for doors Acoustical Requirements STC 50 minimum between building support and office spaces Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf	Communication	CCTV	N/A
Acoustical Requirements STC 50 minimum between building support and office spaces Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf		CATV	N/A
Furnishings/Equipment/ Casework Fire rated walls and doors required in storage rooms over 100 sf		Security	
Casework Fire rated walls and doors required in storage rooms over 100 sf	Acoustical Requirements		STC 50 minimum between building support and office spaces
	Special Requirements		Fire rated walls and doors required in storage rooms over 100 sf

Figure 3-39		F4 SIPR Room Data Sheet
Description/Usage		The SIPRnet room will house communication racks for the facility's administrative areas.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Hollow metal or solid core wood door, 3'x7'
Doors	Security/ Hardware	Access control mort lock Combination lock
	View Panels/ Kick-Plates	N/A
	Walls	GWB – painted or CMU - painted
Finishes	Floor	Sealed concrete
rinisnes	Base	Resilient or none if CMU
	Ceiling	GWB-painted
Plumbing		Floor drains for HVAC equipment
HVAC		Dedicated HVAC, 72°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification, wet pipe sprinklers
Power		Convenience Outlets, Dedicated Equipment Outlets, Rack Mounted Outlets
Lighting		Surface mounted Fluorescent Fixtures
	Tele.	Wallphone, Rack for telecom
	Data	Rack for Data
Communication	CCTV	N/A
	CATV	N/A
	Security	Balanced Magnetic Switches, Electronic Strike, and card reader for doors, Motion Sensor for interior
Acoustical Requirements		STC 50 minimum between building support and office spaces
Furnishings/Equipment/ Casework		
Special Requirements		

Figure 3-40		F5 CER Room Data Sheet
Description/Usage		The CER room will house the facility's CER communication racks.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7' pair
Doors	Security/ Hardware	Access control mort lock PA closer
	View Panels/ Kick-Plates	Kick-plates
	Walls	GWB – painted or CMU - painted
Finishes	Floor	Sealed concrete or VCT
rinisnes	Base	Resilient or no base if CMU walls
	Ceiling	GWB-painted
Plumbing		Floor drains for HVAC
HVAC		Dedicated HVAC system, 72°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification, wet pipe sprinklers
Power Lighting		Surface mounted Fluorescent Fixtures Convenience Outlets, Dedicated Equipment Outlets, Rack Mounted Outlets
	Tele.	Wallphone, Rack for Telecom
	Data	Wall Outlet, Rack for Data
Communication	CCTV	N/A
Communication	CATV	Rack for CATV
	Security	Balanced Magnetic Switches, Electronic Strike, and card reader for doors
Acoustical Requirements		STC 50 minimum between building support and office spaces
Furnishings/Equipment/ Casework		
Special Requirements		Fire rated walls and doors required in storage rooms over 100 sf

Figure 3-41		F8 Foam Room Data Sheet
Description/Usage		The Foam room requires direct physical access to the exterior.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7' pair
Doors	Security/	Access control mort lock
Doors	Hardware	PA closer
	View Panels/	Kick-plates
	Kick-Plates	
	Walls	CMU - painted
Finishes	Floor	Sealed concrete
	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		Floor drains
HVAC		55°F Heating, exhaust for Summer ventilation
Fire Protection		Fire Alarm/Mass Notification, wet pipe sprinklers
Power		Convenience Outlets, Dedicated Equipment Outlets
Lighting		Chain Hung or Surface mounted Fluorescent Fixtures
	Tele.	Wallphone
	Data	Wall Outlet
Communication	CCTV	N/A
	CATV	N/A
	Security	Balanced Magnetic Switches, Electronic Strike, and card reader for doors
Acoustical Requirements		STC 50 minimum between building support and office spaces
Furnishings/Equipment/ Casework		
Special Requirements		

Figure 3-42		F9 Compressed Air Room Data Sheet
Description/Usage		The Compressed Air room will house the facility's air compressor.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7' pair
	Security/	Access control mort lock
Doors	Hardware	PA closer
	View Panels/ Kick-Plates	Kick-plates
	Walls	CMU - painted
Finishes	Floor	Sealed concrete
rinishes	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		Floor Drains
HVAC		55°F Heating, exhaust for Summer ventilation
Fire Protection		Fire Alarm/Mass Notification, wet pipe sprinklers
Power		Convenience Outlets, Dedicated Equipment Outlets
Lighting		Chain Hung or Surface mounted Fluorescent Fixtures
	Tele.	Wallphone
	Data	Wall Outlet
Communication	CCTV	N/A
	CATV	N/A
	Security	Balanced Magnetic Switches, Electronic Strike, and card reader for doors
Acoustical Requirements		STC 50 minimum between building support and office spaces
Furnishings/Equipment/ Casework		
Special Requirements		

Figure 3-43		F10 Telecommunications Room Data Sheet
Description/Usage		The Telecommunications room will house telecommunication racks for the facility's administrative areas.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7'
Doors	Security/ Hardware	Storeroom lock
	View Panels/ Kick-Plates	Kick-plates
	Walls	CMU - painted
 Finishes	Floor	Sealed concrete
rinishes	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		Floor Drains for HVAC equipment
HVAC		72°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification, wet pipe sprinklers
Power		Chain Hung or Surface mounted Fluorescent Fixtures
Lighting		Convenience Outlets, Dedicated Equipment Outlets, Rack Mounted Outlets
	Tele.	Wallphone, Rack for Telecom
	Data	Wall Outlet, Rack for Data
Communication	CCTV	N/A
	CATV	Rack for CATV
	Security	N/A
Acoustical Requirements		STC 50 minimum between building support and office spaces
Furnishings/Equipment/ Casework		
Special Requirements		Fire rated walls and doors required in storage rooms over 100 sf

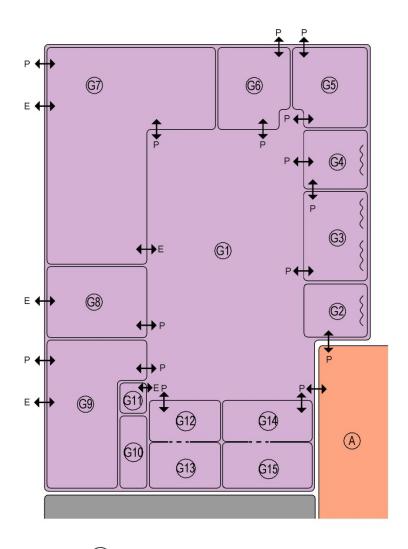
3-7 MODULE G – ELECTRO/ENVIRONMENTAL (E/E) SHOP MODULE

3-7.1 Function and Adjacency

The E/E Shop shall be placed on an exterior wall with exterior entry doors for both equipment and personnel. Direct physical access to the Hangar Bay is required for the E/E Shop

* NOTE: DAYLIGHTING PER UFC 01-200-02

Figure 3-44 Module G Adjacency Diagram





ENTRY/EXIT

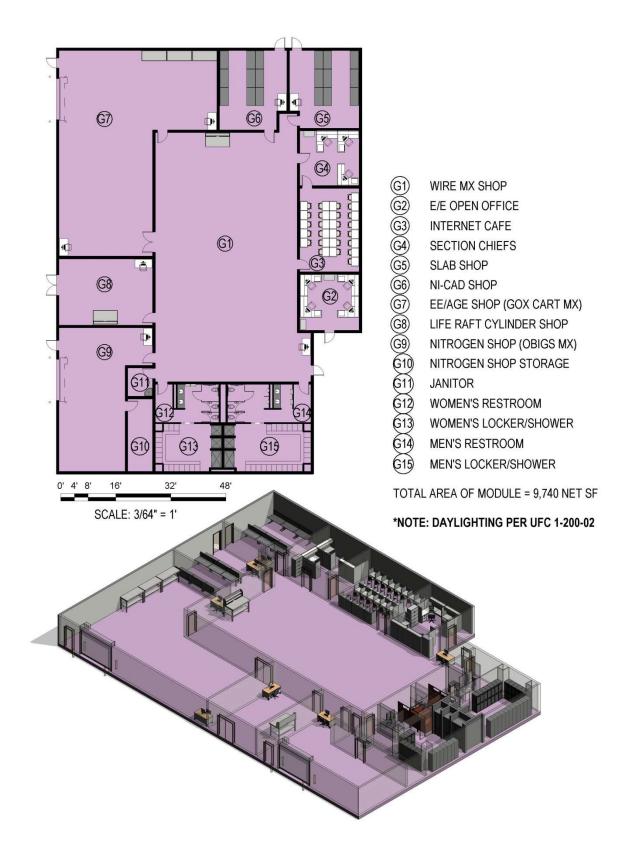
P - PERSONNEL ENTRY

JANITOR

E - EQUIPMENT/ SERVICE ENTRY

3-7.2 E/E Shop

Figure 3-45 Module G Floor Plan & Axonometric



3-7.3 Data Sheets

Figure 3-46		G1 Wire MX Shop Room Data Sheet
Description/Usage		The Wire MX Shop will provide repair and maintenance shop space for wire maintenance.
Ceiling Height		Exposed to structure
Windows		N/A
	Туре	Insulated metal, 3'x7'
Doors	Security/ Hardware	Access control mort lock
	View Panels/ Kick-Plates	Kick-plates
	Walls	CMU-painted
Finishes	Floor	Sealed concrete
rinishes	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		Floor Drains
HVAC		Exhaust hood for soldering station, 78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Power for MD-2 400Hz Frequency Converter, Power for B-9 400Hz rectifier, Convenience Receptacles, Dedicated Equipment Outlets
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Workbench Outlets, Wallphone Outlet
	Data	Workbench Outlets
Communication	CCTV	N/A
	CATV	CATV
	Security	N/A
Acoustical Requir	rements	N/A
Furnishings/Equipment/ Casework		Computer workstation, ergonomic task chair, wall clock
Special Requirements		Grounding Bus Bar Around Perimeter

Figure 3-47		G2 E/E Open Office Room Data Sheet
Description/Usage		The E/E Open Office will house E/E personnel requiring workstations.
Ceiling Height		9'-0"
Windows		Daylighting
	Туре	Insulated metal, 3'x7'
Doors	Security/	Access control mort lock
Doors	Hardware	Reg closer
	View Panels/	Kick-plate
	Kick-Plates	
	Walls	GWB-painted
 Finishes	Floor	VCT
T misries	Base	Resilient
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV outlet
	Security	Glass Break Sensor for Windows
Acoustical Requirements		STC 39 minimum
Furnishings/Equipment/ Casework		Systems furniture to accommodate (4) personnel, ergonomic task chairs, lateral filing cabinet, wall clock, marker board, cork board, 4 gal trash can at each desk, 23 gal recycle bin
Special Requirements		Grounding Bus Bar Around Perimeter

Figure 3-48		G3 Internet Café Room Data Sheet
		The Internet Café Room will provide computer space for EE Shop maintainers to check email and access the internet.
Description/Usage		
Ceiling Height		9'-0"
Windows		Daylighting
	Туре	Insulated metal, 3'x7'
Doors	Security/	Entry lock
Doors	Hardware	
	View Panels/	N/A
	Kick-Plates	
	Walls	CMU-painted or GWB-painted
Finishes	Floor	VCT
	Base	Resilient or non if CMU
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV outlet
	Security	Glass Break Sensor for Windows
Acoustical Requirements		STC 39
Furnishings/Equipment/ Casework		Systems furniture carrel to accommodate (25) computers, stacking guest chairs, marker board, cork board, wall clock, 23 gal trash can, 23 gal recycle bin
Special Requirements		

Figure 3-49		G4 Section Chiefs Room Data Sheet
Description/Usage		This office will house the E/E Shop Section Chiefs.
Ceiling Height		9'-0"
Windows		Daylighting
	Туре	Insulated metal, 3'x7'
Doors	Security/	Entry lock
Doors	Hardware	
	View Panels/	N/A
	Kick-Plates	
	Walls	CMU-painted or GWB-painted
Finishes	Floor	VCT
i iiiisiies	Base	Resilient or none if CMU
	Ceiling	ACT
Plumbing		N/A
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Workstation Outlets, Convenience Outlets, Dedicated Equipment Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV outlet
	Security	Glass Break Sensor for Windows
Acoustical Requirements		STC 39
Furnishings/Equipment/ Casework		(3) L-shaped desks, ergonomic task chairs, lateral filing cabinets, wall clock, marker board, cork board, 4 gal trash can at each desk, 23 gal recycle bin
Special Requirements		

Figure 3-50		G5 Slab Shop Room Data Sheet
		The Slab Shop will provide space for charging equipment.
Description/Usage		
Description/ Osage		
Ceiling Height		9'-0" minimum (clear)
Windows	I	N/A
	Туре	Insulated metal, 3'x7'
Doors	Security/	Exit device
D0013	Hardware	PA closer
	View Panels/	Kick-plate
	Kick-Plates	
	Walls	CMU-painted
Finishes	Floor	Sealed concrete
	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		Emergency Eyewash
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating, Battery Exhaust system
Fire Protection		N/A
Power		Workstation Outlets, Convenience Receptacles, Dedicated Equipment Outlets, 30A/250V Power for SLAB chargers
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	N/A
	Security	Balanced Magnetic Switch, Card Reader, Electric Strike
Acoustical Requirements		N/A
Furnishings/Equipment/ Casework		Computer workstation, ergonomic task chair, (9) battery charging workstations
Special Requirements		Grounding Bus Bar Around Perimeter

Figure 3-51		G6 NI-Cad Shop Room Data Sheet
Description/Usage		The NI-Cad Shop will house battery charging stations for Ni-Cad.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7'
Doors	Security/	Exit device
Doors	Hardware	PA closer
	View Panels/	Kick-plates
	Kick-Plates	
	Walls	CMU-painted
Finishes	Floor	Sealed concrete
1 111151165	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		Emergency eyewash station
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating, Battery Exhaust system
Fire Protection		N/A
Power		Workstation Outlets, Convenience Receptacles, Dedicated Equipment Outlets, 30A/250V Power for Ni Cad chargers
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	N/A
	Security	Balanced Magnetic Switch, Card Reader, Electric Strike
Acoustical Requir	rements	N/A
Furnishings/Equipment/ Casework		Computer workstation, ergonomic task chair, (9) battery charging workstations
Special Requirements		Grounding Bus Bar Around Perimeter

Figure 3-52		G7 EE/AGE Shop (GOX Cart MX) Room Data Sheet
Description/Usage		The EE/AGE Shop will provide space for GOX cart maintenance.
Ceiling Height		Exposed to structure
Windows		N/A
	Туре	Insulated metal, 3'x7' and 3'x7' pair Overhead coiling door, 10'x11'-10"
Doors	Security/ Hardware	Exit device PA closer
	View Panels/ Kick-Plates	Kick-plates
	Walls	CMU-painted
 Finishes	Floor	Sealed concrete
l illisites	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		Emergency eyewash station
HVAC		78°F Cooling (maximum 55°F dewpoint)/68°F Heating, Exhaust hood, high level O2 alarm system
Fire Protection		N/A
Power		Workstation Outlets, Convenience Receptacles, Dedicated Equipment Outlets
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV outlet
	Security	Balanced Magnetic Switch for Exterior Openings, Card Reader, Electric Strike
Acoustical Requirements		N/A
Furnishings/Equipment/ Casework		Computer workstation, ergonomic task chair, (3) workbenches
Special Requirements		Grounding Bus Bar Around Perimeter

Figure 3-53		G8 Life Raft Cylinder Shop Room Data Sheet
Description/Usag	ge	The Life Raft Cylinder Shop will provide maintenance space for Life Raft Cylinder repairs.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7' Insulated metal, 3'x7' pair
Doors	Security/ Hardware	Access control mort lock PA closer
	View Panels/ Kick-Plates	Kick-plate
	Walls	CMU-painted
Finishes	Floor	Sealed concrete
rinisnes	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		N/A
HVAC		Exhaust hood, 78°F Cooling (maximum 55°F dewpoint)/68°F Heating, Low O2 alarms
Fire Protection		N/A
Power		Workstation Outlets, Convenience Receptacles, Dedicated Equipment Outlets
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV outlet
	Security	Balanced Magnetic Switch for Exterior Openings, Card Reader, Electric Strike
Acoustical Requir	rements	N/A
Furnishings/Equi Casework	pment/	Computer workstation, ergonomic task chair, (1) workbench
Special Requirem	ients	Grounding Bus Bar Around Perimeter

Figure 3-54		G9 Nitrogen Shop (OBIGS MX) Room Data Sheet
Description/Usag	ge	The Nitrogen Shop (OBIGS MX) will house shop space for OBIGS maintenance.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7' Overhead coiling door, 10'x11'-10"
Doors	Security/ Hardware	Exit device, PA closer
	View Panels/ Kick-Plates	Kick-plates
	Walls	CMU-painted
Finishes	Floor	Sealed Concrete
Finisnes	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		Floor Drains
HVAC		Exhaust hood, 78°F Cooling (maximum 55°F dewpoint)/68°F Heating, Low O2 alarms
Fire Protection		N/A
Power		Workstation Outlets, Convenience Receptacles, Dedicated Equipment Outlets
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Workstation Outlets, Wallphone Outlet
	Data	Workstation Outlets
Communication	CCTV	N/A
	CATV	CATV outlet
	Security	Balanced Magnetic Switch for Exterior Openings, Card Reader, Electric Strike
Acoustical Requi	rements	N/A
Furnishings/Equi Casework	pment/	Computer workstation, ergonomic task chair
Special Requirem	nents	Grounding Bus Bar Around Perimeter

Figure 3-55		G10 Nitrogen Shop Storage Room Data Sheet
Description/Usag	ge	The Nitrogen Shop Storage room will store Nitrogen cartridges when they are not in use.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7'
Doors	Security/	Storeroom lock
Doors	Hardware	Reg closer
	View Panels/ Kick-Plates	Kick-plate
	Walls	CMU-painted
Finishes	Floor	Sealed concrete
Finisnes	Base	No base
	Ceiling	Exposed to structure-painted
Plumbing		N/A
HVAC		Exhaust hood, 78°F Cooling (maximum 55°F dewpoint)/68°F Heating, Low O2 alarms
Fire Protection		N/A
Power		Convenience Receptacles
Lighting		Surface or Pendant Mounted Fluorescent Fixtures
	Tele.	Wallphone Outlet
	Data	Wall Outlets
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requir	rements	N/A
Furnishings/Equi Casework	pment/	
Special Requirem	ents	Fire rated walls and doors required in storage rooms over 100 sf

Figure 3-56		G11-G15 Lockers/Restrooms Room Data Sheets
Description/Usag	ge	This Lockers/Restroom module is intended to serve all personnel in the E/E Shop. Locker rooms will include enough lockers for all full-time and part-time personnel to have a dedicated locker. Include a Janitor Closet near restrooms with a floor sink and mop/broom hooks.
Ceiling Height		9'-0" minimum (clear)
Windows		N/A
	Туре	Insulated metal, 3'x7'; Closers on all doors
Doors	Security/ Hardware	N/A
	View Panels/ Kick-Plates	N/A
	Walls	Moisture resistant GWB full-height in locker rooms, tile wainscot to 5' A.F.F. with moisture resistant GWB above in restrooms and full-height tile in showers.
Finishes	Floor	Ceramic or porcelain tile
	Base	Tile cove base to match floor
	Ceiling	Moisture resistant GWB - painted
Plumbing		Sinks; toilets; urinals; floor drains in Shower and Locker areas
HVAC		Exhaust, Indirect HVAC
Fire Protection		Fire Alarm/Mass Notification Devices, sprinklers
Power		Convenience Outlets
Lighting		Recessed Indirect Fluorescent Fixtures
	Tele.	N/A
	Data	N/A
Communication	CCTV	N/A
	CATV	N/A
	Security	N/A
Acoustical Requir	rements	STC 50
Furnishings/Equi Casework	pment/	Fixture count shall be determined by number of building occupants at maximum load; wall mounted toilets and urinals; wall mounted baby changing stations; Double-height lockers 18"Wx24"D (min. 214 in Men and 90 in Women)
Special Requirem	ents	Moisture resistant gypsum board throughout Line of sight shall be blocked from corridors

CHAPTER 4 ENGINEERING/TECHNICAL CRITERIA

4-1 NOT USED

APPENDIX A - REFERENCES

ABA Architectural Barriers Act Accessibility Standard for Department of **Defense Facilities** ACI 301 American Concrete Institute "Specifications for Structural Concrete" American Concrete Institute "Building Code Requirements for ACI 318/318R Reinforced Concrete and Commentary" American Concrete Institute "Building Code Requirements for ACI 530/530.1 Masonry Structures" and "Specifications for Masonry Structures" Air Force Corporate Facility Standards **AFCFS** AFH 32-1084 Air Force Handbook 32-1084, Civil Engineering, Facility Requirements AFI 31-101 Air Force Physical Security Program AFI 32-1063 **Electric Power Systems** AFI 32-1065 **Grounding Systems** AFMAN 32-1084 **Facility Requirements AISC** American Institute of Steel Construction "Specification for Structural Steel Buildings" American Iron and Steel Institute "North American Specification for AISI the Design of Cold-Formed Steel Structural Members" ASCE 7 American Society of Civil Engineers "Minimum Design Loads for **Buildings and Other Structures**" **ASHRAE 15** Safety Standard for Refrigeration Systems Ventilation for Acceptable Indoor Air Quality ASHRAE 62.1 ASHRAE 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings **ASHRAE 189.1** Standard for the Design of High Performance Green Buildings ASTM Codes and American Society of Testing and Materials Standards AWS D1.1-00 American Welding Society "Structural Welding Code -Steel" EISA Section 438 Stormwater Management for Federal Facilities under Section 438 of the Energy Independence and Security Act EM 200-1-3 Requirements for the Preparation of Sampling and Analysis Plans ER-1110-1-263 Chemical Data Quality Management for Hazardous, Toxic, Radioactive Waste Remedial Activities **EPACT 2005** Energy Policy Act of 2005 ETL 02-15 Engineering Technical Letter: Fire Protection Engineering Criteria – **New Aircraft Facilities** ETL 04-3 Design Criteria for Prevention of Mold in Air Force Facilities ETL 07-4 Air Force Carpet Standard

27 FEBRUARY 2015

ETL 12-15 LED Fixture Design and Installation Criteria for Interior and Exterior

Lighting Applications, w/Change 1

ETL 13-4 Engineering Technical Letter (ETL) 13-4: Standby Generator

Design, Maintenance, and Testing Criteria

FAA AC 70/7460- Federal Aviation Administration Advisory Circular: Obstruction

1K Marking and Lighting

FAA AC Federal Aviation Administration Advisory Circular: Airport Drainage

150/5320-5D Design

FAA AC Federal Aviation Administration Advisory Circular: Specification for

150/5345-43F Obstruction Lighting Equipment IEEE C2 National Electrical Safety Code

IENSA 10th Ed of the Handbook
IFC International Fuel Gas code
IMC International Mechanical Code
IPC International Plumbing Code

MIL-HDBK 1004/6 Lightning Protection

MIL-HDBK Design Guidelines for Physical Security of Facilities

1013/1A

MIL-HDBK-1190 Facility Planning and Design Guide

MUTCD Manual on Uniform Traffic Control Devices
NFPA 10 Standard for Portable Fire Extinguishers

NFPA 70 National Electrical Code

NFPA 70E Electric Safety in the Work Place

NFPA 72 National Fire Alarm and Signaling Code NFPA 101 National Fire Protection Association

NFPA 220 Standard on Types of Building Construction

NFPA 780 Standard for the Installation of Lightning Protection System NPDES National Pollutant Discharge Elimination System (NPDES) for

Construction Activities (Varies by State)

OSHA Occupational Safety and Health Administration Regulations

TI-800-01 Design Criteria

UFC 1-200-01 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 3-220-04FA	Backfill for Subsurface Structures
UFC 3-220-08FA	Engineering Use of Geotextiles
UFC 3-230-01	Water Storage, Distribution, and Transmission
UFC 3-240-01	Wastewater Collection
UFC 3-250-01FA	Pavement Design for Roads, Streets, Walks and Open Storage Areas
UFC 3-250-04	Standard Practice for Concrete Pavements
UFC 3-250-08FA	Standard Practice for Sealing Joints and Cracks in Rigid and
	Flexible Pavements
UFC 3-250-11	Soil Stabilization for Pavements
UFC 3-260-01	Airfield and Heliport Planning and Design
UFC 3-260-02	Pavement Design for Airfields
UFC 3-260-17	Dust Control for Roads, Airfields, and Adjacent Areas
UFC 3-301-01	Design: Structural Engineering
UFC 3-400-02	Design: Engineering Weather Data
UFC 3-410-04N	Industrial Ventilation
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 3-570-02A	Cathodic Protection
UFC 3-575-01	Lightning and Static Electricity Protection Systems
UFC 3-580-01	Telecommunications Building Cabling Systems Planning and Design
UFC 4-010-01	DoD Minimum Antiterrorism Standards for Buildings
UFC 4-010-02	DoD Minimum Antiterrorism Standoff Distances for Buildings (FOUO)
UFC 4-021-01	Design and O&M: Mass Notification Systems
UFC 4-022-01	Security Engineering: Entry Control Facilities / Access Control Points
UFC 4-022-02	Selection and Application of Vehicle Barriers
UFC 4-022-03	Security Fences and Gates
UFC 4-023-03	Design of Buildings to Resist Progressive Collapse
USGBC LEED-	LEED for New Construction and Major Renovations Rating System
NC	(U.S. Green Building Council)

APPENDIX B – AIRCRAFT MAINTENANCE UNIT FACILITY PROGRAMMING SHEET

MODULE NO.	AREA	NO. OCCUP	NO. OF ROOMS REQUIRED	INDIVIDUAL ROOM RQRMNTS	NET USER REQUIREMENTS	COMMENTS
				SF	SF SM	
Α	Hangar Bay					
A.1	GWPE Hangar Bay	0	1	48610	48610 4,515.87	
	SUBTOTAL ENGINE BAY AREA				48610 4,515.87	
В	Shop Support					
B.1	CTK	3	1	1,710	1,710 158.86	
B.2	CTK Office	3	1	200	200 18.58	
B.3	Laser	0	1	90	90 8.36	
B.4	HAZMAT	0	1	600	600 55.74	
B.5	Aero Repair	7	1	480	480 44.59	
B.6	Aero Repair Office	2	1	195	195 18.12	
B.7	Jets	7	1	480	480 44.59	
B.8	Jets Office	2	1	195	195 18.12	
	SUBTOTAL ENGINE SHOP SUPPORT AREA				3950 366.96	
С	Break Room					
C.1	Break Room	18	1	480	480 44.59	3
C.2	PC Room	18	1	360	360 33.44	4
	SUBTOTAL BREAKROOM AREA				840 78.04	
D	Administration					
D.1	Conference Room	26	1	690	690 64.10	7,8
D.2	Coordinator Office	4	1	380	380 35.30	7,8
D.3	Dock Chief	2	1	235	235 21.83	7,8
D.4	OIC	1	1	170	170 15.79	7,8
D.5	Flight Chiefs	4	1	270	270 25.08	7,8
D.6	Records	2	1	215	215 19.97	7,8
D.7	Open Office SUBTOTAL ADMINISTRATION AREA	4	1	90	90 8.36 2.050 190.45	7,8
	SOBTOTAL ADMINISTRATION AREA			10% Circulation	2,255 209.49	
				1070 Circulation	2,200 200:10	
E	Locker/Restroom					
E.1 E.2	Women's Restroom Women's Lockers/Showers	4 18	1	270 210	270 25.08 210 19.51	9 3,9
E.3	Men's Restroom	8	1	395	395 36.70	3,9 9
E.4	Men's Lockers/Showers	22	1	290	290 26.94	3,9
E.5	Janitor's Closet	0	1	70	70 6.50	0,0
	SUBTOTAL ADMINISTRATION AREA				1,235 114.73	
F	Building Support					
F.1	Mechanical Mechanical	0	1	1,000	1.000 92.90	10
F.2	Electrical	0		390	390 36.23	10
F.3	Inverter Room	0		50	50 4.65	
F.4	SIPR	0	1	160	160 14.86	
F.5	CER	0	1	160	160 14.86	
F.6	Electrical	0	1	190	190 17.65	10
F.7	Mechanical	0	1	315	315 29.26	10
F.8	Foam Room	0] !	600	600 55.74	
F.9 F.10	Compressed Air Telecommunications Room (TR)	0	1 1	800 130	800 74.32 130 12.08	
F.10	SUBTOTAL BUILDING SUPPORT AREA	- 0		130	3,795 352.56	
	SUBTOTAL BUILDING SUPPORT AREA				0,700 002.00	

G	E/E Shop						
G.1	Wire MX Shop	0	1	3,080	3,080	286.13	
G.2	E/E Open Office	4	1	285	285	26.48	
G.3	Internet Café	25	1	425	425	39.48	
G.4	Section Chiefs	3	1	280	280	26.01	
G.5	Slab Shop	1	1	450	450	41.81	
G.6	NI-Cad Shop	1	1	440	440	40.88	
G.7	EE/AGE Shop (GOX Cart MX)	2	1	2,070	2,070	192.30	
G.8	Life Raft Cylinder Shop	1	1	530	530	49.24	
G.9	Nitrogen Shop (OBIGS MX)	1	1	900	900	83.61	
G.10	Nitrogen Shop Storage	0	1	160	160	14.86	
G.11	Janitor	0	1	70	70	6.50	
G.12	Women's Restroom	3	1	200	200	18.58	
G.13	Women's Locker/Shower	32	1	250	250	23.23	3
G.14	Men's Restroom	5	1	265	265	24.62	
G.15	Men's Locker/Shower	48	1	335	335	31.12	3
	SUBTOTAL E/E SHOP AREA				9,740	904.85	
	TOTAL FACILITY NET FLOOR AREA				70,425	7,042.50	
	NET TO GROSS	15%			1 0,120	.,	1,5,6
	TOTAL FACILITY GROSS AREA	13/0			80.989	7,524	1,0,0
	TOTAL PAGILITY CROSS AREA				00,505	1,027	<u> </u>
Н	Exterior Elements						
H.1	Covered Entry	0	1	210	210	20	2
H.2	Covered GOX Cart Parking	0	1	700	700	65	2
H.3	Parking	17					4
	SUBTOTAL EXTERIOR ELEMENTS				210	20	
	TOTAL FACILITY SITE SUPPORT				210	20	
	TOTAL FACILITY SITE SUFFORT				210	20	
COMMENT	TS:						
1	Includes walls, corridors, columns, etc.						
2	Covered exterior elements count as 1/2 square footage. Noncovered exter	rior coacoc ara	not include	d in building progr	ammina cau	ro	
	Locker count is based on double-height lockers and includes all openings		not include	a in building progr	amming squa	110	
3		٠.					
4	Parking count includes 12 POV, 4 GOV, and 1 Handicap space.						
5	Includes all areas listed in Air Force Manual 32-1084, Chapter 1 and Cha						
6	Per AFM 32-1084 Chapter 1, net-to-gross multiplier of up to 25%, used 1		rtion of area	is in Hangar Bay.			
7	Reference Tables in Chapter 6 of Air Force Manual 32-1084 for additional	al information.					
8	Administration Areas include circulation factor of 10% per Chapter 1 Air I	Force Manual 32	2-1084				
9	Male/Female ratio of 73/30						
10	Building Support areas are estimates only and actual size is dependent of						1

APPENDIX C - BIM & PDF DRAWING LINK

See the link below for the BIM & PDF versions of the drawings: <u>http://www.wbdg.org/references/afbim_tools.php</u>

APPENDIX D – SUPPLEMENTAL RFP DATA LINK

See the link below for the Supplement RFP data:

http://www.wbdg.org/references/afbim_tools.php

APPENDIX E – AIR FORCE MILCON SUSTAINABILITY REQUIREMENTS SCORESHEET

Air Force MILCON Sustainability Requirements Scoresheet version LEED® 2009 (Updated September 2013) * required entry General Information Project ID (e.g. ABCD12345) xxxxxxxxxxxxxx Real Property Unique ID (RPUID) General Maintenance/Periodic Inspection (GM/PE Hangar) -**Building Name** Prototype Design New Building Construction Project Type Installation Other Other City Other State Other CONUS Air Combat Command MAJCOM TBD PM Name Federal PA (\$k) \$0.00 80,989 Building Size (SF) Requirements Program Year (FY####) 2015 Initial Design Charrette Project Phase Complete Design Started (FY####) 2015 10/9/2017 BOD (MM/DD/YY) In Progress Pursuing formal LEED® Certification [Select] • LEED® 2009 LEED® Rating System 43 LEED® Points Status LEED® Certification Level Status Certified LEED® Energy and Water Points Status HPSB Compliant 91% Energy Efficiency Achieved (% below ANSI/ASHRAE/IESNA 26% Standard 90.1-2010) 2/27/2015 Date Scoresheet Completed or Revised 2013_V0 Scoresheet version Color Coding: See Instructions Tab for more detail Drop-Down Box Recommended (not required) No Entry Required Custom Entry Maybe LEED Prerequisite

				* required entry
Federal Require	ments for High	Performance and Sustainable Buildings (HPSB) & UFC 1-200-02		
HPSB I: Employ Int	tegrated Design	Principles (UFC 1-200-02 para 2-2)		
Total Points	2		Possible Points	2
Yes	HPSB I.1	Integrated Design		1
Yes	HPSB I.2	Commissioning		1
UFC 1-200-02 para	2-3. Promote Su	stainable Location and Site Development		
Total Points	0		Possible Points (HPSB only)	1
Maybe	UFC para 2-3.1	Site selection		1
Maybe	UFC para 2-3.2	Mitigation of Heat Island Effect		1
Yes	UFC para 2-3.3	Reduction of Light Pollution		1
Maybe	HPSB III.3-4	Stormwater Management		1

HPSB II: Optimize E Total Points	nergy Performa	nce (UFC 1-200-02 para 2-4)	Possible Points	4
Yes	HPSB II.1	Energy Efficiency		1
	_	Yes	Reduce energy use 30% below ANSI/ASHRAE/IESNA Standard 90.1-2010 or if not - achieve maximum energy efficiency that is lifecycle cost effective	
		26.0%	Insert percentage below ANSI/ASHRAE/IESNA Standard 90.1- 2010 in terms of energy use (e.g. 32)	
	<u>-</u>	0	Insert building energy intensity (kBtu/yr-sqft) calculated IAW 10 CFR 433	
Yes	HPSB II.2	On-site Renewable Energy - Solar I		1
		Yes	Installed solar hot water heater system or found installation not lifecycle cost effective	
		0.0	Insert generation capacity (MMBtu/yr)	
	_	0.0%	Insert percentage of demand	l
Yes	HPSB II.3	On-site Renewable Energy		1
		Yes	Installed renewable energy elements or projects were not lifecycle cost effective	
		0	Renewable energy types (check below)	
			Solar PV Geothermal Hydro Waste to Energy	
			Solar CP ☐ GSHP ☐ Wind ☐ Renewables were no lifecycle cost effecti	ot ive
			Solar Thermal Electric	••
			Insert generation capacity (kW)	ĺ
			Insert percentage of total building	ĺ
Yes	HPSB II.4	Measurement and Verification		1
		Yes	Water Metering: Select N/A if no service	l
		Yes	Electric Metering: Select N/A if no service	
		Yes	Natural Gas Metering: Select N/A if no service	
		N/A	Steam Metering: Select N/A if no service	
		ter (UFC 1-200-02 para 2-5)		
Total Points Yes	HPSB III.1	Indoor Water	Possible Points	<u>3</u>
	HPSB III.2	Outdoor Water		1
Yes Yes	HPSB III.2 HPSB III.4	Water used for heating and cooling		1
163	TII OD III.4	Yes	Water efficient measures were implemented with heating and cooling equipment when life cycle effective	
HPSB IV: Enhance I		nental Quality (UFC 1-200-02 para 2-6		
Total Points	5	Thermal Comfort	Possible Points	6
Yes	HPSB IV.1			1
Yes	HPSB IV.2	Ventilation		1
Yes	HPSB IV.3	Moisture Control		1
Maybe	HPSB IV.4	Daylighting		1
Yes	HPSB IV.5	Low Emitting Materials	and the same of the same	1
Yes	HPSB IV.6	Protect Indoor Air Quality during Co	onstruction	1
Yes	HPSB IV.7	Environmental Tobacco Smoke		
Total Points	6	pact of Materials (UFC 1-200-02 para	2-6) Possible Points	6
Yes	HPSB V.1	Recycled Content		1
Yes	HPSB V.2	Biologically-based Products		1
Yes	HPSB V.3	Environmentally Preferable Produc	ts	1
Yes	HPSB V.4	Waste and Materials Management		1
Yes	HPSB V.5	Waste and Materials Management		1
		50.0%	Insert percentage diverted from landfill	
	-		Data element is not applicable	l l
Yes	HPSB V.6	Ozone Depleting Substances		1
HPSB Totals			Possible Points	22
20		rements - Yes or N/A		
2 0	Federal Requi	rements - Maybe		
91%		Federal Requirements Met		

		lits and/or Prerequisites that me		
			gn closely with HPSB/UFC Requirements	
ainable Sites		lits that meet USAF Energy & Wa	ater Criteria (may depend on technologies & strategies)	_
vable Points	7	Sustainable Sites	Possible Point	s 2
Yes	Prereg 1	Construction Activity Pollution		Req
Maybe	Credit 1	Site Selection	, , , , , , , , , , , , , , , , , , ,	11041
Maybe	Credit 2	Development Density & Com	munity Connectivity	
Maybe	Credit 3	Brownfield Redevelopment	•	
Maybe	Credit 4.1	Alternative Transportation -	Public Transportation Access	6
Yes	Credit 4.2	•	Bicycle Storage & Changing Rooms	•
Yes	Credit 4.3	•	Low-Emitting & Fuel Efficient Vehicles	;
Yes	Credit 4.4	Alternative Transportation -		2
Maybe	Credit 5.1	Site Development - Protect o		
Maybe	Credit 5.2 Credit 6.1	Site Development - Maximize	·	
	Credit 6.1	Stormwater Design - Quantit Stormwater Design - Quality		
Maybe	Credit 7.1	Heat Island Effect - Non-Roof		
Maybe	Credit 7.1	Heat Island Effect - Roof (UF		
Yes	Credit 8	Light Pollution Reduction	5 ,	
	ordan d		Select which LEED® Interior Lighting Option was used	
r Efficiency			and the second s	
able Points	7		Possible Point	s 1
Yes	Prereq 1	Water Use Reduction - 20% F		Requ
4	Credit 1	Water Efficient Landscaping		_ 2 to
		2	Reduce Potable Water Use by 50% (HPSB GP3)	4
		4	No Potable Use or Irrigation (HPSB GP3)	
Maybe	Credit 2	Innovative Wastewater Tech	=	2
3	Credit 3	Water Use Reduction (HPSB		_ 2 t
		2	30% Reduction (HPSB GP3) 35% Reduction (HPSB GP3)	
		3	LOOM REGUEUON (EPOB GPO)	1 '
able Points Yes	14 Prereq 1	4 Fundamental Commissioning	40% Reduction (HPSB GP3) Possible Point g of the Building Energy Systems (HPSB GP1)	s 3
Yes	Prereq 1 Prereq 2	Fundamental Commissionin	40% Reduction (HPSB GP3) Possible Point g of the Building Energy Systems (HPSB GP1) ce (HPSB GP2)	Required Required Requirements
Yes Yes Yes Yes	Prereq 1 Prereq 2 Prereq 3	Fundamental Commissionin Minimum Energy Performan Fundamental Refrigerant Ma	40% Reduction (HPSB GP3) Possible Point g of the Building Energy Systems (HPSB GP1) ce (HPSB GP2) anagement (HPSB GP5)	s 3 Requ Requ
Yes Yes	Prereq 1 Prereq 2	Fundamental Commissioning Minimum Energy Performan Fundamental Refrigerant Ma Optimize Energy Performan	40% Reduction (HPSB GP3) Possible Point g of the Building Energy Systems (HPSB GP1) ce (HPSB GP2) anagement (HPSB GP5) ce (HPSB GP2)	Requesting Requesting 1 to
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Yes Yes Yes Yes	Prereq 1 Prereq 2 Prereq 3	Fundamental Commissionin. Minimum Energy Performan Fundamental Refrigerant Ma Optimize Energy Performane 1 2	40% Reduction (HPSB GP3) Possible Point g of the Building Energy Systems (HPSB GP1) ce (HPSB GP2) anagement (HPSB GP5) ce (HPSB GP2) 12% for New Buildings/8% for Existing Building Renovations 14% for New Buildings/10% for Existing Building Renovations	Requesting Requesting Requesting 1 to
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27 FEBRUARY 2015

Materials & Resour				
Achievable Points	ces 6		Possible Points	14
Yes	Prereq 1	Storage & Collection of Recyclables (HPSB GP5)		Required
0	Credit 1.1	Building Reuse - Maintain Existing Walls Floors & Roof		1 to 3
		1 Maintain 55% of Existing Walls Floors & Roof 2 Maintain 75% of Existing Walls Floors & Roof		1 1
	_	3 Maintain 95% of Existing Walls Floors & Roof		1
Maybe	Credit 1.2	Building Reuse - Maintain 50% of Interior Non-Structural Elements		1
0	Credit 2	Construction Waste Management (HPSB GP5)		1 to 2
		1 50% Recycled or Salvaged 2 75% Recycled or Salvaged		1 1
0	Credit 3	Materials Reuse		1 to 2
		1 5% of value of material reused content		1
•	One ality 4	2 10% of value of material reused content		1
2	Credit 4	Recycled Content (HPSB GP5) 1 10% of value of material recycled content		1 to 2
		2 20% of value of material reused content		1 1
2	Credit 5	Regional Materials		1 to 2
		1 10% Extracted, Processed & Manufactured		1
Yes	Credit 6	2 20% Extracted, Processed & Manufactured Rapidly Renewable Materials (HPSB GP5)] 1 1
Yes	Credit 7	Certified Wood (HPSB GP5)		1
ndoor Environmer	ntal Quality		D	
Achievable Points Yes	9 Prereq 1	Minimum IAQ Performance (HPSB GP4)	Possible Points	15 Required
Yes	Prereq 2	Environmental Tobacco Smoke (ETS) Control (HPSB GP4)		Required
Maybe	Credit 1	Outside Air Delivery Monitoring		1
Yes	Credit 2	Increased Ventilation		1
Maybe	Credit 3.1 Credit 3.2	Construction IAQ Management Plan, During Construction (HPSB GP4)		1
Yes Yes	Credit 4.1	Construction IAQ Management Plan, Before Occupancy (HPSB GP4) Low Emitting Materials, Adhesives & Sealants (HPSB GP4)		1 1
Yes	Credit 4.2	Low Emitting Materials, Paints & Coatings (HPSB GP4)		1
Yes	Credit 4.3	Low Emitting Materials, Flooring Systems (HPSB GP4)		1
Yes	Credit 4.4	Low Emitting Materials, Composite Wood & Agrifiber Products (HPSB GP4)		1
Yes Yes	Credit 5 Credit 6.1	Indoor Chemical & Pollutant Source Control Controllability of Systems, Lighting (HPSB GP4)		1
Maybe	Credit 6.1	Controllability of Systems, Thermal Comfort		1
Yes	Credit 7.1	Thermal Comfort, Design (HPSB GP4)		1
Maybe	Credit 7.2	Thermal Comfort, Verification		1
Maybe Maybe	Credit 8.1 Credit 8.2	Daylight & Views - Daylight 75% of Spaces (HPSB GP4) Daylight & Views - Views for 90% of Spaces		1 1
Innovation & Desig		Daylight & Views - Views for 3070 or Opaces		
Achievable Points	Credit 1.1	Innovation in Design 1.1	Possible Points	6 1
	Credit 1.1	Select if ID 1.1 was for energy and/or water		'
	Credit 1.2	Innovation in Design 1.2		1
	Credit 1.2	Select if ID 1.2 was for energy and/or water		4
	Credit 1.3	Innovation in Design 1.3 Select if ID 1.3 was for energy and/or water		1
	Credit 1.4	Innovation in Design 1.4		1
		Select if ID 1.4 was for energy and/or water		
	Credit 1.5	Innovation in Design 1.5		1
	Credit 1.5	Innovation in Design 1.5 Select if ID 1.5 was for energy and/or water LEED® Accredited Professional		1
	Credit 2	Select if ID 1.5 was for energy and/or water		1
	Credit 2 Credits 0	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional	Possible Points	1
Regional Priority C Achievable Points	Credit 2	Select if ID 1.5 was for energy and/or water	Possible Points	1
	Credit 2 Credits 0	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1	Possible Points	1
	Credit 2 Credits 0 Credit 1.1 Credit 1.2	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water	Possible Points	1 4 1
	Credit 2 Credits 0 Credit 1.1	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3	Possible Points	1 4 1
	Credit 2 Credits 0 Credit 1.1 Credit 1.2 Credit 1.3	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3 Select if RP 1.3 was for energy and/or water	Possible Points	1 4 1
Achievable Points	Credit 2 Credits 0 Credit 1.1 Credit 1.2 Credit 1.3 Credit 1.4	Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water		1 1 1 1
Achievable Points	Credit 2 Credit 5 0 Credit 1.1 Credit 1.2 Credit 1.3 Credit 1.4 Credit 1.4	Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water	Possible Points Possible Points	1 1 1 1
Achievable Points LEED Project Total	Credit 2 Credit 5 0 Credit 1.1 Credit 1.2 Credit 1.3 Credit 1.4 s (pre-certifica Total LEED®	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water tion estimates) Yes Points		1 1 1 1
Achievable Points	Credit 2 Credit 5 0 Credit 1.1 Credit 1.2 Credit 1.3 Credit 1.4 s (pre-certifica Total LEED®	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water tion estimates) Yes Points Maybe Points		1 4 1 1 1
LEED Project Total	Credit 2 Credit 1.1 Credit 1.2 Credit 1.3 Credit 1.4 s (pre-certifica Total LEED® Total LEED® Total LEED®	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water tion estimates) Yes Points Maybe Points		1 4 1 1 1
LEED Project Total 43 18	Credit 2 Credit 1.1 Credit 1.2 Credit 1.3 Credit 1.4 S (pre-certifica Total LEED® Total LEED® Total LEED® Total LEED®	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.5 Select if RP 1.6 was for energy and/or water Regional Priority 1.4 Select if RP 1.6 was for energy and/or water Regional Priority 1.4 Select if RP 1.6 was for energy and/or water Regional Priority 1.4 Select if RP 1.6 was for energy and/or water Regional Priority 1.4 Select if RP 1.6 was for energy and/or water		1 1 1 1
LEED Project Total 43 18 0 19 Certified	Credit 2 Credit 1.1 Credit 1.2 Credit 1.3 Credit 1.4 S (pre-certifica Total LEED® Total LEED® Total LEED® LEED® Certif	Regional Priority 1.1 Regional Priority 1.2 Select if RP 1.1 was for energy and/or water Regional Priority 1.3 Select if RP 1.2 was for energy and/or water Regional Priority 1.4 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4		1 4 1 1 1
LEED Project Total 43 18 0 19 Certified N/A	Credit 2 Credit 1.1 Credit 1.2 Credit 1.3 Credit 1.4 S (pre-certifica Total LEED® Total LEED® Total LEED® LEED® Certif	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Ition estimates) Yes Points Maybe Points No Points Energy and Water Related Points		1 4 1 1 1
LEED Project Total 43 18 0 19 Certified	Credit 2 Credit 1.1 Credit 1.2 Credit 1.2 Credit 1.3 Credit 1.4 S (pre-certifica Total LEED® Total LEED® Total LEED® Total LEED® LEED® Certifica LEED® Horiz	Regional Priority 1.1 Regional Priority 1.2 Select if RP 1.1 was for energy and/or water Regional Priority 1.3 Select if RP 1.2 was for energy and/or water Regional Priority 1.4 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4 Select if RP 1.5 was for energy and/or water Regional Priority 1.4		1 4 1 1 1
LEED Project Total 43 18 0 19 Certified N/A	Credit 2 Credit 1.1 Credit 1.2 Credit 1.3 Credit 1.4 S (pre-certifica Total LEED® Total LEED® Total LEED® Total LEED® Total LEED® Total LEED® LEED® Certifica LEED® Horiz LEED® Utility	Select if ID 1.5 was for energy and/or water LEED® Accredited Professional Regional Priority 1.1 Select if RP 1.1 was for energy and/or water Regional Priority 1.2 Select if RP 1.2 was for energy and/or water Regional Priority 1.3 Select if RP 1.3 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water Regional Priority 1.4 Select if RP 1.4 was for energy and/or water tion estimates) Yes Points Maybe Points No Points Energy and Water Related Points fication Status ontal Benchmark Level		1 4 1 1 1