

U.S. ARMY CORPS OF ENGINEERS

**CRIMINAL INVESTIGATION
COMMAND (CIDC) FACILITIES**

Standard Building Design Criteria

12 December 2011

TABLE OF CONTENTS

<u>CHAPTER 1 DESIGN OBJECTIVES</u>		<u>Page</u>
1.1	Purpose	1-1
1.2	CIDC Organization and Mission	1-1
1.3	Design Guidance	1-3
1.4	Energy and Resource Conservation Design Guidance	1-4
1.5	The Army's Installation Design Standards	1-4
1.6	Accessibility Requirements	1-5
1.7	Anti-Terrorism & Force Protection (ATFP) Considerations	1-6
1.8	Sustainable Design and Development	1-6
<u>CHAPTER 2 GENERAL</u>		
2.1	General Requirements	2-1
2.2	Building Prototypes	2-2
<u>CHAPTER 2A, 5-9 RESIDENT AGENTS (RA) BUILDING</u>		
2A.1	Field Operations Building Program RA 5-9	2-3
2A.2	Personnel Space Requirements	2-6
2A.3	Support Areas	2-16
2A.4	Administrative Areas	2-25
2A.5	Special Use Areas	2-29
	➤ Building Rendering	
	➤ Floor Plans and Site Plan	
	➤ Adjacency Matrix	

CHAPTER 2B, 10-15 RESIDENT AGENTS (RA) BUILDING**Page**

2B.1	Field Operations Building, RA 10-15	2-43
2B.2	Personnel Prototypes	2-46
2B.3	Support Areas	2-54
2B.4	Administrative Areas	2-63
2B.5	Special Use Areas	2-69
➤	Building Rendering	
➤	Floor Plans and Site Plan	
➤	Adjacency Matrix	

CHAPTER 2C, 24 DETACHMENT BUILDING

2C.1	Field Operations Building, RA 24	2-84
2C.2	Personnel Space Requirements	2-87
2C.3	Support Areas	2-99
2C.4	Administrative Areas	2-108
2C.5	Special Use Areas	2-117
➤	Building Rendering	
➤	Floor Plans and Site Plan	
➤	Adjacency Matrix	

CHAPTER 2D, BATTALION HQ BUILDING

2D.1	Battalion Headquarters Building	2-129
2D.2	Personnel Space Requirements	2-134
2D.3	Support Areas	2-142
2D.4	Administrative Areas	2-151
2D.5	Special Use Areas	2-158
➤	Building Rendering	
➤	Plans, Schedules & Elevations	
➤	Adjacency Matrix	

CHAPTER 2E, VEHICLE PROCESSING BUILDING**Page**

2E.1 Vehicle Processing	2-170
-------------------------	-------

CHAPTER 3 FACILITY DESIGN

3.1 Site Planning and Civil Engineering	3-1
3.2 Landscaping Design	3-4
3.3 Geotechnical	3-4
3.4 Structural	3-5
3.5 Architecture	3-5
3.6 Fire Protection	3-8
3.7 Commissioning of Building Energy Systems	3-10
3.8 Mechanical	3-10
3.9 Direct Digital Control System	3-14
3.10 Plumbing Systems	3-14
3.11 Electrical	3-15
3.12 Communications	3-18
3.13 Cost	3-22

CHAPTER 1

DESIGN OBJECTIVES

1.1. PURPOSE

This manual provides guidance for the standard design of Army Criminal Investigation Command (CIDC) facilities (Category Code 14114). Four CIDC facility prototypes and a freestanding Vehicle Processing Building are included in the document. Prototypes include three CIDC Field Operations buildings of various sizes, and a Battalion Headquarters (HQ) building, designed for the unique requirements of a CIDC Battalion. The written criteria is arranged in chapters which address design objectives, building programs for each prototype and space requirements for each room, and technical design requirements for building systems. Chapter 2 is divided into subparts containing space requirements, schematic site diagrams, floor plans, sections and exterior elevations for each building prototype. The criteria document is to be used by those individuals involved in the planning, programming, design, and evaluation of CIDC facilities. During the planning and programming phases, the document will be used to select a site, complete initial parametric cost estimates and define the project scope. In a design/build delivery method, the Corps planning team will incorporate the CIDC-specific criteria into the larger framework of the D/B Model RFP, using the RFP Wizard, by including the applicable Chapter 2 subpart (e.g., 2A. Field Operations Building, RA 5-9), and tailoring the RFP to include the CIDC-specific requirements included in Chapter 3 of the criteria document. Any conflict between this criteria and the Model RFP will be resolved by the Norfolk District, Center of Standardization (COS). The project RFP will then be issued to design/build teams who will use the criteria to site-adapt the prototype to design the CIDC facility. In a traditional design/bid/build project delivery process, the Corps project design team or contracted architect/engineering (A/E) firm will use the criteria to develop construction documents which will be issued for bids to construct the facility.

1.2. THE CIDC ORGANIZATION AND MISSION

1.2.1. Mission. The CIDC (often referred to as "CID", its original name) is the Army's primary criminal investigative organization. CIDC personnel investigate serious crimes in which the Army may be a party of interest, on and off military installations throughout the world, and when appropriate, with local, state and other federal investigative agencies. USACIDC is organized as a major command of the Army, and is headquartered at Marine Corps Base Quantico, Virginia. For additional organizational information, refer to www.cid.army.mil.

1.2.2. Organization. The CIDC organization structure includes a command headquarters; Group HQs, battalions, field offices/resident agencies, and branch offices; a forensic laboratory; a crime records center; and any other units required to fulfill the assigned mission. Each CIDC battalion is assigned a specific geographic area of responsibility (AOR) which it apportions among its subordinate field units. This standards document provides design criteria for the two most commonly constructed CIDC facility types: the CIDC Battalion Headquarters building, and three sizes of field offices: A Detachment Building (field office) for 24 agents; a Field Office for 10-15 Resident Agents; and a Field Office for 5-9 Resident Agents each with a separate building for Vehicle Processing.

1.2.3. The CIDC Battalion HQ. The CIDC battalion is the basic unit responsible for command and control of investigative activities within the geographic AOR assigned by the

parent group. All CIDC battalion headquarters provide management, logistical and administrative support to subordinate field offices that are responsible for conducting investigative activities. In addition to battalion-level management functions, each battalion HQ contains a Company Operations Facility (COF) along with S-1, S-2/3, S-4 & S-6 support elements. Battalion headquarters facilities also include classroom and operational training spaces. Although criminal investigations are not normally conducted by personnel occupying the battalion HQ, the building includes polygraph testing spaces, and evidence storage facilities which can be used for training and to accommodate overflow from field offices. The battalion HQ also includes an arms vault and storage for gear used when the battalion deploys.

1.2.4. The CIDC Field Office. The CIDC field office (also known as a 'detachment') is the basic operating unit responsible for conducting criminal investigative activities within its respective geographic AOR. Each field office is assigned to a parent battalion for command, control, and overall management. Each field office has full operational capability but limited clerical and administrative capability; nonclerical support is provided by the parent unit either directly or by local installation support agreements. Each field office is identified by a unique CIDC unit number and maintains all its own operational files and an evidence depository. Each field office is authorized a number of CIDC special agents. The Detachment 24 Field Office prototype in this standard criteria document is designed for 24 resident agents; the RA 10-15 prototype is designed for 10-15 resident agents; and the RA 5-9 Field Office for 5-9 resident agents. Each field office is augmented with a 2-8 person Drug Suppression Team.

1.2.5. Mission of the CIDC Field Office. The Special Agent in Charge (SAC) of each CIDC investigative unit is responsible for the conduct of all criminal investigative activity within the geographic AOR. Specific responsibilities include:

- Command subordinate elements
- Supervise the conduct of criminal investigations; ensure compliance with CIDC investigative policies and procedures.
- Keep supported commanders fully informed of the status of criminal investigations concerning personnel or facilities under their command, unless information is withheld under the provisions of paragraph 3-14a, AR 195-2.
- Perform drug suppression operations.
- Perform crime prevention surveys.
- Provide protective services.
- Establish and operate a criminal intelligence program.
- Establish and operate a source program.
- Maintain liaison with civil and other military investigative agencies.
- Provide crime statistics to the Commanding General, CIDC, and to supported commanders as required or requested.

1.2.6. Function of the CIDC Field Office. The CIDC agents in the field office perform criminal investigations and other tasks to support the CIDC mission. The work conducted in a CIDC field office is analogous to the work done by detectives in a municipal police department. Agents investigate crimes by gathering and processing evidence, interviewing suspects and witnesses, conducting polygraph tests, and completing the associated recordkeeping. The field office differs from a typical municipal police precinct in that the field office does not include work

space for uniformed/patrol police, and the field office does not have a dispatch area, nor prisoner holding facilities. However, each of the field office buildings includes a secure (escorted) suspect entry door leading to a fenced government vehicle parking lot, and a suspect waiting area where potentially unfriendly suspects are securely segregated from other building functions. Evidence gathered during an investigation is stored in the field office, in conformance with the requirements of Army Regulation (AR) 195-5 Evidence Procedures.

1.2.7. Applicability of the Standard Design Criteria. This standard applies to all U.S. Army elements and as a supplement to AR 140-483, Army Reserve Land and Facilities Management for Army Reserve facilities. The Category Code 14114 facilities described in this document may be occupied by a local branch office, resident agency, field office and a battalion headquarters. CIDC units at Group and higher levels should occupy 14182 Brigade Headquarters Building, or 61050, Administrative Building, General Purpose. The concepts developed in this document are applicable to new construction, although most are also appropriate for retrofit or renovation applications. Some facilities will have special needs in addition to the basic CIDC criteria, and these should be considered during planning and design.

1.3. DESIGN GUIDANCE

The CIDC Standard Design Criteria provides the basic guidelines for evaluating, planning, programming, and designing new and renovated CIDC facilities. The criteria contained in this document establish the baseline levels of features, spaces and finishes to be provided in these facilities. Planning, design, operation and maintenance of CIDC facilities shall comply with Army Military Construction (MILCON) requirements, MILCON Best Practices (MBP), and Corps of Engineers, Norfolk District (NAO) Design Guidelines. Design and construction shall use the latest Unified Facilities Criteria (UFC), Unified Federal Guide Specifications (UFGS) and other applicable codes, regulations, Technical Instructions and Manuals, and criteria. This document is intended to supplement other applicable codes and standards, without repeating the common requirements found in those documents. All CIDC facilities shall be designed and constructed in accordance with the current edition of the following:

- Architectural Barriers Act (ABA) Accessibility Standard for Department of Defense (DoD) Facilities; as directed by Secretary of Defense Memorandum, 31 October 2008; see: <http://www.access-board.gov/ada-aba/aba-standards-dod.cfm>
- Army Regulation (AR) 405-70 Utilization of Real Property
- AR 420-1 Army Facilities Management
- AR 195-5 Evidence Procedures
- AR195-6 Department of the Army Polygraph Activities
- AR 190-11 Physical Security of Arms, Ammunition, and Explosives
- Technical Criteria for the Installation Information Infrastructure Architecture, (I3A Technical Criteria), dated February 2010
- The approved Installation Design Guide (for the installation on which the facility will be built)
- Technical Guide for the Integration of the Secret Internet Protocol Router Network (SIPRNET) published by USAISEC Criteria
- UFC 1-200-01 Design: General Building Requirements

- UFC 3-120-10 Comprehensive Interior Design
- UFC 3-400-01 Energy Conservation (with 2008 revisions)
- 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 3-600-01 Fire Protection Engineering for Facilities
- UFC 3-580-01 Telecommunications Building Cabling Systems Planning/Design
- UFC 4-010-01 DoD Minimum Anti-terrorism Standards for Buildings
- UFC 4-021-01 Design and O & M: Mass Notification Systems
- Whole Building Design Guide (for discipline-specific design guidance):
http://www.wbdg.org/design/design_disciplines.php

1.4. ENERGY AND RESOURCE CONSERVATION DESIGN GUIDANCE

Public Law 102-486, Executive Order 13123, and Federal Regulations 10 CFR 435, requires federal buildings to be designed and constructed to reduce energy consumption in a life cycle, cost-effective manner using renewable energy sources when economical. Products designed to conserve energy and resources by controlling the amounts of consumed energy or by operating at increased efficiencies should be considered. Facilities shall be designed and constructed in accordance with the following DoD policies and directives on energy conservation:

- Army Energy Security Implementation Strategy of 2009
- ASHRAE 189.1-2009 Standard for the Design of High-Performance Green
- ECB 2010-14 and ECB 2011-1
- Energy Independence and Security Act (EISA) of 2007
- Energy Policy Act (EPACT) of 2005
- Executive Order (EO) 13423 Strengthening Federal Environmental, Energy, and Transportation Management, 2007
- Executive Order (EO) 13514 – Federal Leadership in Environmental, Energy and Economic Performance, 2009
- Federal Leadership in High Performance and Sustainable buildings, Memorandum of Understanding (HPSBGP/MOU), 2006
- UFC 3-400-01 Energy Conservation (with 2008 revisions)
- USACE Army LEED Implementation Guide
- Whole Building Design Guide (for Army Energy Management Guidance):
http://www.wbdg.org/references/pa_dod_energy.php

1.5. THE ARMY'S INSTALLATION DESIGN STANDARDS

Facilities planning and design shall comply with the Army's Installation Design Standards (<http://www.HQDA.ARMY.MIL/ACSIMWEB/HOME PAGE.SHTML>). The Headquarters,

Department of the Army Facilities Standardization Committee, is the approval authority for waivers to Army Standards. The Headquarters, Department of the Army Facilities Standardization Sub-Committee is the approval authority for waivers to Army standard criteria. Technical Criteria for Installation Information Infrastructure Architecture, dated February 2010 takes precedence in all cases over the Unified Facilities Criteria (UFC) 3-580-01, dated 22 June 2007.

1.5.1. Installation Real Property Master Plan. Facilities planning and design shall be coordinated with the Real Property Master Plan. The plan provides comprehensive documentation of the existing conditions of natural, man-made, and human resources.

1.5.2. Installation Design Guide. Facilities planning and design shall be coordinated with the approved Installation Design Guide for the installation on which the CIDC facility will be located to the extent permitted by prevailing requirements, for the adaptation of the standard design to the site. However, mandatory features of this standard design criteria shall govern in cases of conflict with the approved installation design guide.

1.5.3. Master Planning Criteria. Facilities space requirements (by category code) shall be coordinated and reflect the Army Criteria Tracking System (ACTS) as applicable.

1.5.4. National Historic Preservation Act. Section 106 of the National Preservation Act of 1966 (NHPA) requires federal agencies to take into account the effects of their undertakings on historic properties, and afford the Advisory Council on Historic Preservation a reasonable opportunity to comment. This process is facilitated by the Installation Cultural Resource Manager (CRM) in accordance with AR 200-1 Environmental Protection and Enhancement. Prior to a renovation project, consult with the CRM to confirm that applicable NHPA requirements have been met.

1.6. ACCESSIBILITY REQUIREMENTS

As directed by Secretary of Defense Memorandum, 31 October 2008, the "DoD Standards" for Access for People With Disabilities shall incorporate the Architectural Barriers Act (ABA) Accessibility Standard for Department of Defense (DoD) Facilities; available at <http://www.access-board.gov/ada-aba/aba-standards-dod.cfm>. The DoD Standards incorporate the United States Access Board's update of the Architectural Barriers Act (ABA) and Americans With Disabilities Act (ADA) guidelines as a single rule published at Part 1191 of Title 36, Code of Federal Regulations (CFR), and contain scoping provisions specifying what must be accessible and technical requirements specifying how access is to be achieved. Design of CIDC facilities shall comply with the accessibility requirements of the DoD Standards.

1.6.1. Accessible Parking Requirements. Accessible parking spaces shall be provided in quantities specified by the DoD Standards for visitor and staff parking areas at the CIDC facility. Accessible spaces are required to be located so as to provide convenient access to an accessible building entrance. Parking areas located within the secure (fenced) government-vehicle parking area will be used only by able-bodied personnel in government vehicles, and for storage of impounded vehicles retained as evidence, and are not required to meet accessibility requirements.

1.7. ANTI-TERRORISM & FORCE PROTECTION (ATFP) CONSIDERATIONS

Project design and construction shall comply with the latest edition of the Department of Defense UFC 4-010-01 Minimum Anti-Terrorism Standards for Buildings. To determine levels of threat and protection, prior to design, the installation must provide a threat assessment. Coordinate with the installation security forces and the Directorate of Public Works (DPW) Master Planner to determine if the minimum standards are adequate for the project location. Provide higher levels of protection if a threat analysis has identified a specific threat that requires more stringent measures than provided by the minimum standards. For additional information, refer to Civil Engineering and Site Planning requirements included in Chapter 3 of this document.

1.8. SUSTAINABLE DESIGN AND DEVELOPMENT

The goals for improving the sustainability of facilities include: (a) use resources efficiently and minimize raw material resource consumption, including energy, water, land and materials, both during the construction process and throughout the life of the facility, (b) maximize resource re-use, while maintaining financial stewardship, (c) move away from fossil fuels towards renewable energy sources, (d) create a healthy and productive work environment for all who use the facility, (e) build facilities of long-term value with reconfigurable features when feasible, and (f) protect and, where appropriate, restore the natural environment. The sustainability strategy of facilities shall comply with the requirements of U.S. Army Corps of Engineers Engineering and Construction Bulletins ECB 2010-14 and ECB 2011-1.

1.8.1. Sustainable Design Techniques. Sustainable design techniques shall be considered as they relate to site and building design, construction, operation and demolition/deconstruction. Techniques that conserve energy, improve functionality, and can be justified by life cycle cost analysis as cost effective are encouraged. Where specific materials are indicated by these criteria, the intent is to provide a basis for functional performance and quality. Designers should consider substitute materials that provide higher levels of sustainable design. For example, permeable pavements and reduced structured drainage techniques should be considered where compatible with the installation's maintenance considerations and other requirements.

1.8.2. Leadership in Energy and Environmental Design (LEED) Principles. The level of incorporation of sustainable design principles will be measured through use of the U.S. Green Building Council (USGBC) LEED current version Rating System. LEED information is available at the USGBC website: <http://www.usgbc.org>. Current Army policy states that all projects must be designed and constructed to achieve the required number of credits to achieve LEED Silver Certification. In addition, certain LEED Credits and Prerequisites are required to be obtained to comply with applicable Army energy conservation mandates.

1.8.3. Sustainable Design Coordination. Areas of sustainable design that are beyond the control of project designers must be coordinated with the installation before credit can be taken. These areas may include installation master planning, site selection, or involving facility users in the programming process.

CHAPTER 2

SPACE DESIGN CRITERIA

2.1 GENERAL REQUIREMENTS

2.1.1 Gross Area Limitations.

Maximum Gross building allowances are identified in TI 800-1 and the Army Criteria Tracking System (ACTS). A Criminal Investigation Command Building (CIDC) shall include a combination of applicable spaces and may include (as required) administrative, Command, polygraph functions, evidence processing, criminal investigations, drug suppression teams & special agents. The Programming Worksheets included in 3-1 through 3-4 represent the 'Functional Space Descriptions & Performance Requirements' for each area and/or function.

2.1.2 Net Area Requirements.

Net area for programmed spaces is included in this document. If net area requirements are not specified, the space shall be sized to: accommodate the required function; and comply with code, overall gross area limitations and other requirements. Examples of spaces without net areas defined are toilets, corridors, stairs, restrooms and mechanical and electrical rooms. Provided net areas and room sizes are guidance that may be adjusted for specific situations such as special function requirements, construction efficiency, or adaptation for existing facilities.

2.1.3 Coordination.

Each project shall be coordinated with the Regional Installation Management Command (IMCOM), installation, the using activity, and the USACE Center of Standardization (COS). The COS is responsible for maintaining the latest standards and may be a resource for current projects and lessons learned. For CIDC Buildings, USACE Norfolk District is the COS. The USACE COS should participate in both planning and design charette for CIDC.

2.1.4 Space Requirements.

The space requirements of each facility will be different based on the needs of the local installation and mission requirements. The criteria in this manual state the area requirements in terms of Net Area (NA) or Gross Area (GA) for each prototype are shown on the drawings. Space requirements in Chapter 3 for the various uses as expressed in terms of NA.

2.2 BUILDING PROTOTYPES

2.2.1 GENERAL

The Army Criminal Investigation Command is the Army's primary investigative organization and DOD's premier investigative organization. The CIDC is responsible for conducting criminal investigations in which the Army is, or may be, a party of interest. Investigations range from death to fraud, on and off military reservations. CIDC deploys highly trained special agents and support personnel, certified forensic laboratory, protective services unit, computer crimes specialists, polygraph services, criminal intelligence collection and analysis and a variety of other services normally associated with law enforcement activities.

2.2.2 Field Operation Buildings

The CIDC field operations buildings house command, operation and administrative functions assigned to the US Army Criminal Investigation Command. There are three definitive Field Operations building types:

- Field Operation Building 5-9 Resident Agents
- Field Operation Building 10-15 Resident Agents
- Field Operation Building 24 Resident Agents

An updating of the functional requirements of this type of facility has been established to restore efficiencies in the repeatable procurement of these types of facilities. This document includes standard design criteria which will be used to deliver quality facilities that comply with standard industry codes and CIDC functional requirements that comply with standard industry codes and criteria.

2.2.3 Battalion HQ Buildings

The Battalion Headquarters facility is comprised of administration, special functions and classroom components. In the Battalion HQ Building type space will be provided for the following:

- Command
- S-1 Human Resources
- S-2 Intelligence Surveillance & Reconnaissance
- S-3 Coordinating Staff Office – Operations, Plans and Training)
- S-4 Logistics Operations Office
- S-6 Information Management Office
- COF Company Operations Facility

2.2.4 Vehicle Processing Building

The Vehicle Processing Building shall be collocated on the site for the Field Operation Buildings. This building is for the function of inspecting vehicles for evidence. This evidence could be retrieve by disassembling and removing parts, taking samples and/or draining fluids.

2A.1 FIELD OPERATIONS BUILDING, RA 5-9

2A.1.1 Program. The following list of Areas and/or Rooms shall be programmed and planned into the CIDC Field Operations Buildings for 5-9 Resident Agents. See 2A.2 for the 'Functional Space Descriptions and Performance Requirements for each Area and/or Room.

2A.1.2 Support Areas

- Vestibule
- Women
- Men
- Shower
- Janitor
- Mechanical
- Electric
- Telecommunications Rm (TR)
- Corridors

2A.1.3 Administrative Areas

- Visitor Waiting
- Administration-Operations (Admin Ops)
- Multi-purpose Lounge
- Small Interview
- Large Interview

2A.1.4 Special Use Areas

- Suspect Waiting
- Polygraph Office
- Polygraph Exam
- Observation Rm.
- Suspect Toilet
- Evidence Processing
- Evidence Custodian
- Evidence Depository
- Duty Office
- Photo ID
- Arms Vault
- Table of Organization and Equipment (TOE)
- Criminal Intelligence Center (CIC) w/ SIPRNET

2A.1 FIELD OPERATIONS BUILDING, RA 5-9 cont'd**2A.1.5 Personnel**

Personnel	Space/Quantity	Grade	Office Prototype
• Administration / Operations	1 Office / 1 Person	E7 with 3 desks	OP6
• Special Agent in Charge (SAC)	<u>1 Office / 1 Person</u>	CW3 w/ SIPRNET	OP3
SUB TOTAL Personnel		2 Each	
• Investigative Ops Tech	1 Office / 1 Person	GS12	OP2
• Operations NCO, Team Chief	1 Office / 1 Person	CW2	OP2
• Drug Suppression Team	1 Office / 2 Persons	Enlisted	OP4
• Special Agents	1 Office / 2 Persons	CW2 and E6	OP4
• Special Agents	<u>1 Office / 3 Persons</u>	E5 and E6	OP6
SUB TOTAL Personnel		9 Each	
TOTAL Personnel		11 Each	

2A.1.6 Personnel Descriptions

- Administrations/Operations: Office Prototype OP6. Assists the operations NCO by performing all required administrative work for the detachment to include procuring supplies as needed. Also assists in performing database searches for name checks.
- Special Agent in Charge (SAC): Office Prototype OP3. The chief of a detachment is tasked with performing criminal investigations within a specific area of responsibility. Represents USACIDC to all personnel within the area of responsibility. Performs quality assurance reviews on investigations and coordinates complex investigations as required. If required, performs criminal investigations and performs protective service mission work.
- Investigative Operations Technician (Invest Ops Tech): Office Prototype OP2: Performs all general investigative support required and performs work on investigative data base systems. Performs limited criminal intelligence work as required. In the absence of any administrative/operations support provides support as needed.

2A.1 FIELD OPERATIONS BUILDING, RA 5-9 cont'd

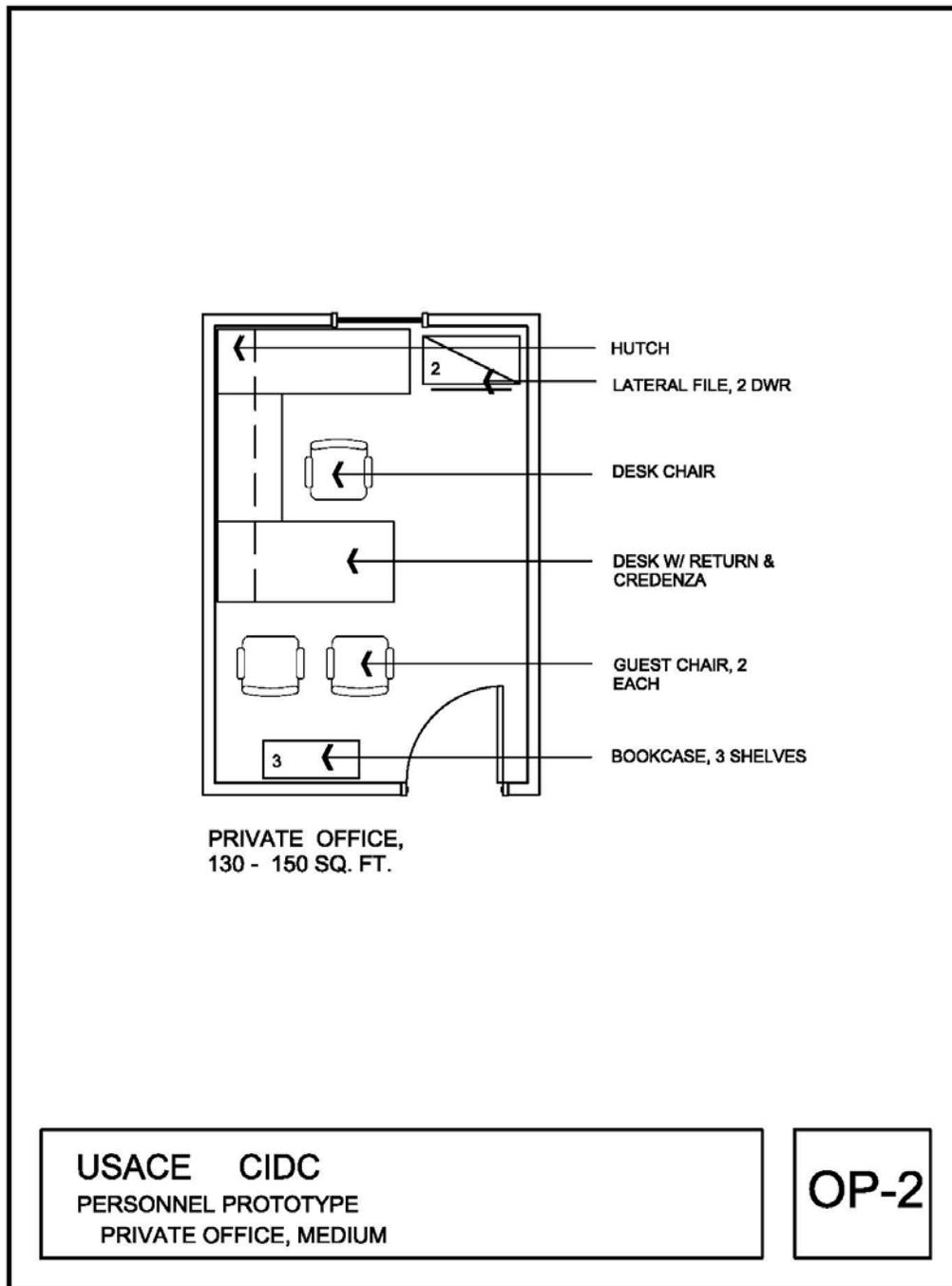
- Operations NCO, Team Chief: Office Prototype OP-2. Assists in coordinating operations and investigations for the detachment as required. May perform criminal investigations required. Coordinates all administrative support for the detachment to include procurement of supplies and coordinating housekeeping and maintenance of the detachment facility.
- Drug Suppression Team: Office Prototype OP4. Performs drug related criminal investigations. In coordination with state, local and national law enforcement performs drug suppression operations and stings.
- Special Agents: Office Prototype OP4 and OP6. These personnel are part of a team and perform criminal investigations and also perform protective service, such as the Secret Service, when required.

2A.2 PERSONNEL SPACE REQUIREMENTS

2A.2.1 Office Prototype OP-2 , Medium Sized Office – Single Person Occupancy

Provide an enclosed space w/ door and lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

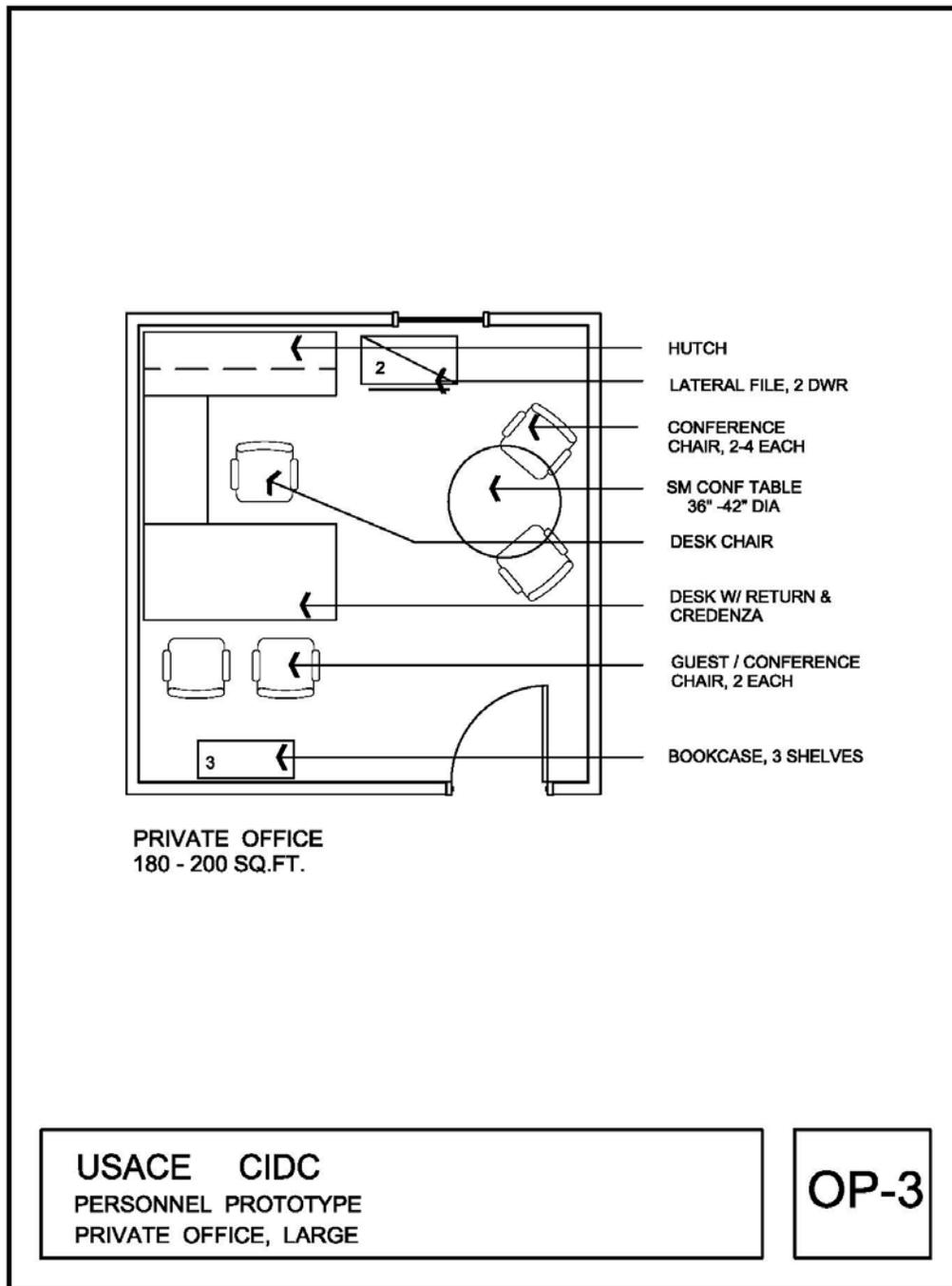
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 130 SF-150 SF
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide Four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors
Communications:	Provide telephone and data connections.
FF&E:	<p>Government furnished equipment includes metal desk with plastic laminated tops and other metal casegoods</p> <ul style="list-style-type: none"> • Desk, single pedestal: 30" x 60" or 36" x 72" • Return 24" x 48" • Credenza w/ 2 dwr file 24" x 60" or 24" x 72" • Hutch (over return or over credenza as appropriate) • Desk Chair • Guest Chair (2 each) • Bookcase, 3 shelves, 36" wide • Lateral File Cabinet, 2 drawer, 36" wide
Miscellaneous	Coat hook on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2A.2 PERSONNEL SPACE REQUIREMENTS, Cont'd.**2A.2.2 Office Prototype OP-3, Large Size Office – Single Person Occupancy**

Provide an enclosed space w/ door and lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

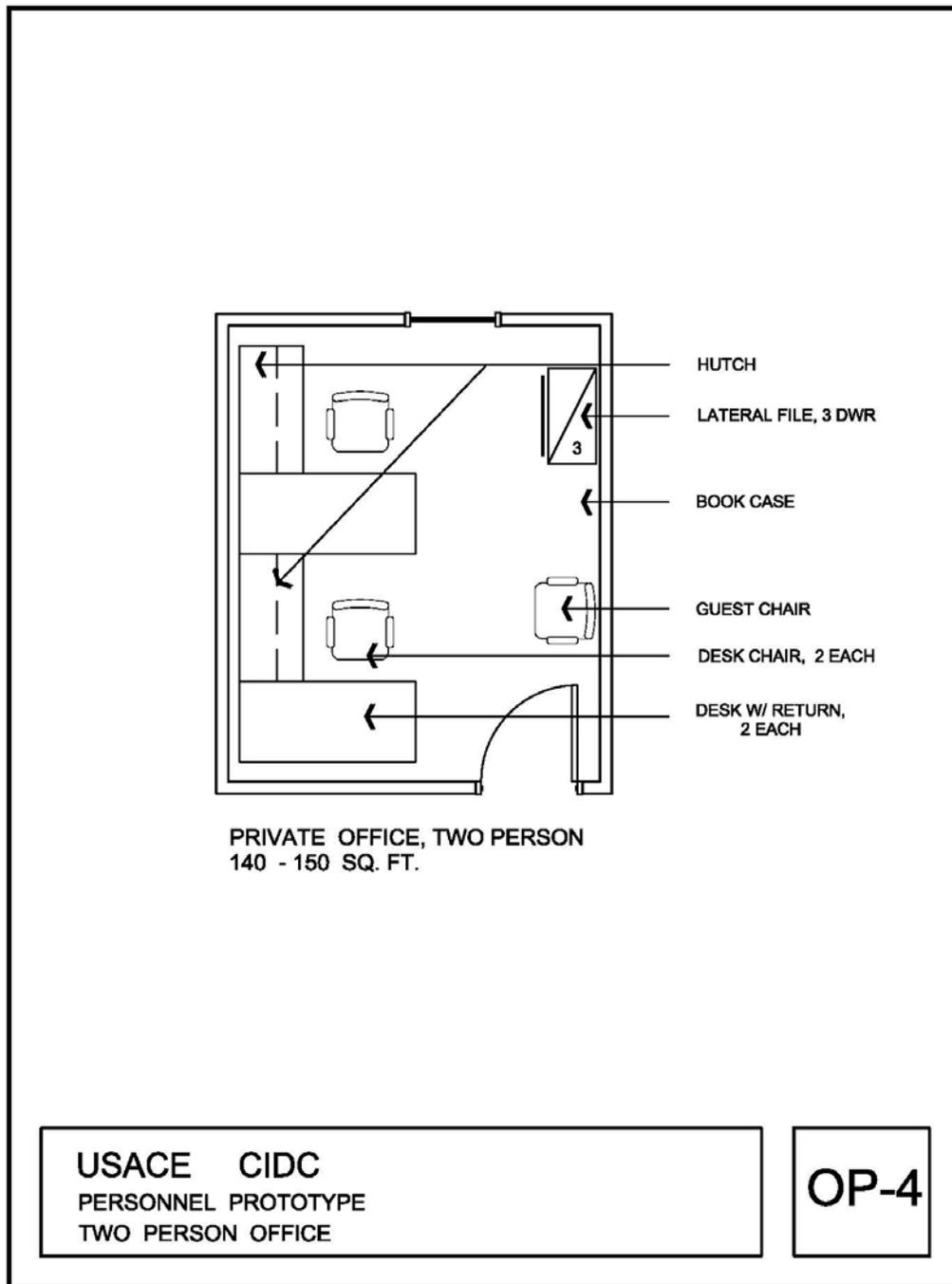
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 180 SF-200 SF.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors.
Communications:	Provide telephone and data connections. Provide a SIPRNET outlet in SAC Office and CIC Office.
FF&E:	Government furnished equipment includes wood or metal casegoods: <ul style="list-style-type: none"> • Desk, single pedestal: 36" x 72" • Return 24" x 48" • Credenza w/ 2 dwr file 24" x 72" • Hutch (to be used over return or credenza) • Desk Chair • Guest Chair (2) • Round Conference Table 36"-42" Diameter • Lateral File Cabinet, 2 drawer 36" wide
Miscellaneous	Coat hooks on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2A.2 PERSONNEL SPACE REQUIREMENTS, Cont'd**2A.2.3 Office Prototype OP-4 – Two Person Occupancy**

Provide an enclosed space w/ door and lock for double person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

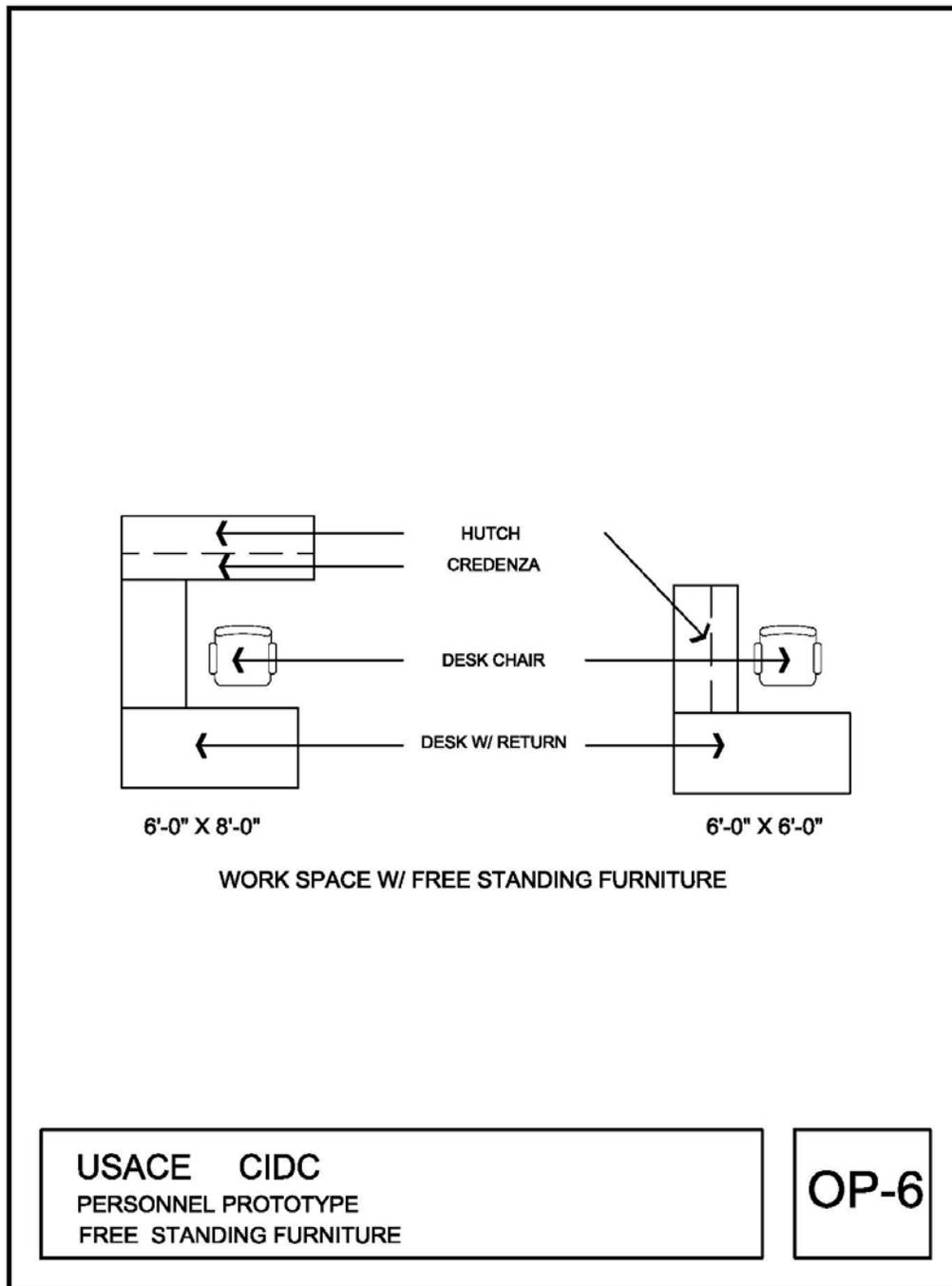
Function:	Office
Occupancy:	2
Space Requirement:	Varies from 140 SF-150 SF.
Mechanical:	Provide heating, cooling and ventilation
Electrical	Provide four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors.
Communications:	Provide telephone and data connections.
FFandE:	Government furnished equipment includes metal casegoods with wood grain plastic laminate tops: <ul style="list-style-type: none"> • Desk, single pedestal – (2 Each) 30" x 60" • Return – (2 Each) 24" x 42" • Hutch (to be used over return) • Desk Chair- (2 Each) • Guest Chair (1-2 Each) • Lateral File Cabinet, 3 shelves, 36" wide • Bookcase, 3 drawer 36" wide
Miscellaneous	Coat hooks on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2A.2 PERSONNEL SPACE REQUIREMENTS, Cont'd.**2A.2.4 Office Prototype OP-6, Work Space with Free Standing Furniture - Single Person Occupancy**

Provide a Work Space with free standing furniture for Single Person occupancy. The size is to comply with personnel rank/grade and/or function.

Function:	Work Space with free standing furniture.
Occupancy:	1
Space Requirement:	Varies from 48 SF-64 SF
Mechanical:	NA
Electrical	Provide two (4) 120V duplex power receptacles
Communications:	Provided telephone and data connections.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors.
FF&E:	Government furnished equipment includes metal furniture with wood grained plastic laminate tops. <ul style="list-style-type: none"> • Desk w/ Pedestal 30" x 60" • Return 24" x 42" or 24" x 48" • Credenza: Optional 24" x 60" • Desk Chair • Hutch (to be used over return or credenza) • Note: Guest chairs, file cabinets and/or bookshelves to be provide adjacent to work station as required.
Miscellaneous	Coat hooks on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2A.3 SUPPORT AREAS

2A.3.1 Vestibule:

Vestibule is accessed from exterior and serves as a transition to the conditioned space of the building into the main lobby. The vestibule shall accommodate the maximum number of people determined by the occupancy load.

Function: Entry into Visitor Waiting

Adjacency Requirements: Exterior, Visitor Waiting, Corridors

Space Requirement: Minimum 150 SF

Mechanical: Space shall provide heating, cooling and ventilation.

Electrical: Provide 120V duplex power receptacles for maintenance.

Communications: Provide intercom connections with paging speakers.

Finishes: Quarry or porcelain tile and base with recessed walk off mat and GWB or plaster ceiling painted ceilings. Vestibule shall have glass windows and or GWB painted walls.

2A.3 SUPPORT AREAS, Cont'd

2A.3.2 Women:	Provide female toilet room with minimum number of fixtures. Include accessible fixtures as required by code. Arrange the entrance to provide visual privacy. This room will be used by visitors and staff. Doors shall be used designed with separate entries for visitors and staff.
Occupancy:	As required per code
Adjacency Req'd:	Visitor Waiting area and Men's Room
Space Requirement:	See Floor Plans
Plumbing:	Efficiently locate fixtures. Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain outside of traffic areas. Provide countertop with integral mounted lavatories. Provide wall hung toilets and urinals Lavatories and toilets shall have automatic valves. Installation shall determine if the valves are battery or hardwired.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide one (1) 120V GFI-duplex power receptacles at each sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power.
Lighting	Provide GWB ceiling with fluorescent fixtures.
Communications:	NA.
Equip and Accessories:	Countertop shall be solid surface material with integrated bowls. Provide solid polymer overhead-braced type toilet partitions at each toilet. Provide the following toilet accessories; one continuous mirror full width of countertop at lavatory; full length mirror, paper towel dispenser/waste receptacle; soap dispensers for each lavatory, one toilet tissue dispenser per toilet; one robe hook on each toilet partition door; one sanitary napkin/tampon vending machine. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile 4'-0" AFF and GWB or plaster painted ceilings.

2A.3 SUPPORT AREAS, Cont'd.

2A.3.3 Men:	Provide male toilet room with minimum number of fixtures. Include accessible fixtures as required by code. Arrange the entrance to provide visual privacy. This room will be used by visitors and staff. Doors shall be used designed with separate entries for visitors and staff.
Occupancy:	As required by code
Adjacency Req:	Visitor Waiting area and Women's Room
Space Requirement:	See Floor Plans
Plumbing:	Efficiently locate fixtures. Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain outside of traffic areas. Provide countertop with integral mounted lavatories. Provide wall hung toilets and urinals Lavatories and toilets shall have automatic valves. Installation shall determine if the valves are battery or hardwired.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide one (1) 120V GFI-duplex power receptacles at sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power.
Lighting:	Provide GWB ceiling with fluorescent fixtures.
Communications:	NA
Equip and Accessories:	Countertop shall be solid surface material with integrated bowls. Provide solid polymer overhead-braced type toilet partitions at each toilet. Provide the following toilet accessories; one continuous mirror full width of countertop at lavatory; full length mirror, paper towel dispenser/waste receptacle; soap dispensers for each lavatory, one toilet tissue dispenser per toilet and one robe hook on each toilet partition door. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile 4'-0" AFF and GWB or plaster painted ceilings.

2A.3 SUPPORT AREAS, Cont'd.

2A.3.4 Shower Room:	Provide accessible shower room with toilet and countertop lavatory for staff.
Function:	Shower room for staff
Adjacency Required:	Adjacent to other areas with plumbing (i.e., Men's and Women's Rooms, Janitor's closet, Staff Break Area)
Space Requirement:	See Floor Plans
Plumbing:	Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain in Shower Area. Efficiently locate fixtures. Toilets and lavatory shall have automatic valves. Installation shall determine if the valves are battery or hardwired. Do not use prefabricated shower stall.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical	Provide one (1) 120V GFI-duplex power receptacles at counter top height at the sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power
Lighting:	Provide GWB ceiling with fluorescent fixtures with prismatic lenses. Provide occupancy sensors.
Communications:	NA
FF&E:	Provide five times the quantity of lockers as toilet/urinal fixtures. Provide half size lockers (stack two high). The lockers shall be solid polymer, have two tiers and mounted above raised concrete platform base. Provide one mirror above lavatory/vanity, one full length mirror, one paper towel dispenser/waste receptacle per two sinks; one soap dispenser per sink; one robe hook per stall. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile to ceiling in shower locations and wet walls and GWB or plaster painted ceilings.

2A.3 SUPPORT AREAS, Cont'd.

2A.3.5 Janitor:	Provide one Janitor closet for building maintenance.
Function:	Janitors Closet is to store cleaning and maintenance housekeeping supplies and equipment.
Adjacency:	Men's and Women's Room
Space Requirement:	Minimum 48 SF
Plumbing:	Provide floor mounted mop sink and floor drain. Faucet shall be designed to support a bucket and have a threaded end to receive a hose.
Mechanical:	Space shall be ventilated
Electrical	Provide GFI-protected convenience receptacle adjacent to the shelving.
Lighting:	Provide wall mounted or ceiling hung industrial linear fluorescent lights.
Communications:	NA
Equipment:	Provide a wall mounted metal strip to hang mops locate near floor mounted mop sink. Include one each 3'-0" wide open industrial type metal shelving to store cleaning supplies.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system

2A.3 SUPPORT AREAS, Cont'd.

2A.3.6 Mechanical:	Provide a dedicated interior space for plumbing, fire protection, and HVAC equipment with access from the exterior. Size and locate rooms (including doorways) to allow equipment removal and maintenance. Provide floor openings and vertical openings as necessary.
Function:	Space for mechanical systems to service the building.
Adjacency Requirements:	Locate main mechanical room on ground floor with double doors opening to the exterior. Mechanical room shall not be used for storage or other purposes; access shall be limited to authorized personnel. Locate exterior mechanical equipment and air intake and openings in exterior walls to comply with force protection standards.
Space Requirement:	This area is part of the gross area factor calculation. The area is to be equal to or greater than 5% of the gross building area for planning purposes. Actual required area shall be determined during programming based upon geographical location.
Plumbing:	Provide floor drain, faucet and other plumbing as required for functions of space.
Mechanical:	Provide heating, cooling, ventilation and exhaust as required.
Electrical	Provide convenience power receptacles as well as required service for equipment.
Lighting:	Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.
Communications:	Provide telephone service for energy management system and a wall mounted telephone outlet general use.
Equipment:	As required
Finishes:	Sealed concrete floor, painted GWB walls with exposed structure ceiling.

2A.3 SUPPORT AREAS, Cont'd.

Other requirements: Locate air intake and exhaust openings to provide optimum indoor air quality. Locate air intakes to comply with AT/FP requirements.

Fire Pump Room: An area has been identified (see dashed line on floor plan) for the location of a Fire Pump Room is required.

2A.3.7 Electrical:

Provide dedicated interior space with exterior access for electrical equipment. Size and locate room (including doorways) to allow equipment removal and maintenance.

Function: Electrical support space for the building

Adjacency Requirements: Access from exterior, and interior corridor and adjacent to the Mechanical Room.

Space Requirement: The area is part of the gross area factor calculation. Total area is to be equal to or greater than 5% of the gross building area for planning purposes. Actual required area shall be determined during programming based upon geographical location.

Mechanical: Space shall be ventilated.

Plumbing: Do not run plumbing over electrical panels.

Electrical: Provide 120V convenience power receptacles.

Lighting: Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.

Communications: Provide telephone service for fire alarm and security systems. Where transmitters and antennas are used by the installation, provide compatible equipment. Provide a wall-mounted telephone outlet for general communications.

Equipment: As required

Finishes: Sealed concrete floor, painted GWB walls with exposed structural ceiling.

2A.3 SUPPORT AREAS, Cont'd.

Other Requirements: Electrical service to the building shall be underground. Provide masonry screen walls with lockable metal access gates around outdoor equipment. It is preferable to locate transformer within the screened mechanical equipment. Comply with AT/FP standards.

2A.3.8 Telecommunication Room: (TR): A Communications room is required to manage building connection to telephone, fiber optic, cable television, and other infrastructure. The room shall serve as a primary means of distributing information/communications through the facility to desktops.

Function: Communications service to the building

Adjacency Requirements: Mechanical Room and Electrical Room

Space Requirement: The area is part of the gross area factor calculation.

Plumbing: Not Applicable

Mechanical: Provide adequate cooling for respective equipment in an independently climate controlled room. This equipment shall provide year-round ambient temperature control to protect all installed electronic equipment.

Electrical; Provide electrical support as required

Lighting: Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.

Communications: Provide telephone and data connections

Equipment: GFGL distribution hardware, switches, servers, etc. Provide backboards and racks.

Finishes: Sealed concrete floor, painted GWB walls with exposed structural ceiling.

Other requirements: Route communications service to building's Entrance Facility (EF) via underground 4" conduits.

2A.3 SUPPORT AREAS, Cont'd.

2A.3.9 Corridors:	Provide as required for circulation. Minimum corridor width shall be as required by applicable codes, but not less than 5' -0" wide for administrative areas.
Function:	Circulation and egress; movement of equipment and personnel throughout the building. Provide insulated hollow metal doors and frames for exterior service areas.
Adjacency Requirements:	Exterior entrances and offices
Space Requirement:	The total net area as required by the design. The net area of corridors is part of the gross area factor calculation for the project.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical	Provide 120V duplex receptacles for convenience.
Lighting:	Day lighting is not required, and shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide public address system in corridors and throughout public areas.
FF&E:	Provide room signage at doors to each room.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system,
Other Requirements:	Coordinate user requirements for access control of exterior doors. Where equipment on carts or dollies is regularly moved through corridors, provide wall and corner guard protection.

2A.4 ADMINISTRATIVE AREAS

2A.4.1 Visitor Waiting:	This area shall be used by visitors to the facility. The visitors are usually witnesses. This area shall be available 24/7 for use by visitors. Provide access to Men's and Women's Toilet but without access to other parts of the building
Occupancy	Seating for 4 guests.
Adjacency Requirements:	Vestibule entry, Administrative Operations.
Space Requirement:	Provide a minimum area of 150 SF or more as may be required for different size facilities.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide 120V duplex receptacles.
Lighting:	Provide recessed fluorescent light fixtures.
Communications:	Provide wall mounted telephone.
FF&E:	Provide lounge seating for two and one side table.
Finishes:	Carpet, rubber base, painted GWB walls, or vinyl wallcovering and suspended acoustic ceiling grid/tile system,
Other Requirements:	Provide a bullet proof communication /transaction window and counter/ledge into Administration – Operations Office.

2A.4 ADMINISTRATIVE AREAS, Cont'd.

2A.4.2 Administration - Operations: One large room with open office space for three - four (3-4) administrative staff. Office shall be located adjacent to Visitor Waiting, and shall maintain visual control of the front door. This space is where all administrative support functions are coordinated for the operation of the facility to include procuring all required supplies and coordinating housekeeping and maintenance of file storage, safe storage and reception.

Provide a bullet proof communication/transaction window and counter/ledge into Visitor Waiting Room. The partition (above, below and surrounding) at the transaction window shall also be bullet proof for the protection of Administrative-Operations personnel.

Occupancy:	1-2 full time and 2-4 part time
Adjacency Requirements:	Visitor Waiting
Space Requirement:	See Floor Plans
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is desirable but shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide telephone and data connections.
FF&E:	Furniture can be freestanding or system furniture panels and components (OP-5 or OP-6). Provide three each 3-drawer lateral file cabinets (36" wide) and 1 each 5-drawer high safe per desk at a minimum. Final storage requirements are to be determined by each facility.
Accessories	Provide one coat hook per person on back of door or on systems furniture panels. Provide one clock.
Casework and Millwork:	Provide a 60" L, 24" D and 1.5" thick solid polymer work surface with backsplash and lower closed cabinets with adjustable shelves. Provide a minimum of 3 each quadraplex power outlets and 3 each LAN outlets above worksurface for a printer, copier, fax and any other site specific equipment.

2A.4 ADMINISTRATIVE AREAS, Cont'd.

Finishes: Carpet, rubber base, painted GWB walls and suspended acoustical ceiling tile/grid system.

2A.4.3 Multi-Purpose Lounge: This area is for multiple functions. It serves as a kitchen / break area with accommodations for a classroom / training configuration. Provide casework, upper and lower cabinets to accommodate the fixtures described under 'plumbing'. Provide an area and containers for recycling and at least two vending machines. The furniture shall be arranged to accommodate the respective functions.

Occupancy: Provide one chair at table for each agent.

Adjacency Requirements: Centrally located for maximum convenience to all staff

Space Requirement: Varies on size of building and quantity of occupants. The kitchen/vending area shall require 150-200 SF. Should a classroom/meeting room function be required, estimate an additional 200-250 SF. See Appendix, Floor Plans.

Mechanical: Space shall provide heating, cooling and ventilation. Heat load calculations shall consider the quantity of users and the additional demands for stove top, oven and vending machines.

Plumbing: Plumbing connections for a refrigerator ice maker and coffee maker. Provide stainless steel double bowl sink with disposal, faucets and instantaneous hot water dispenser. Water could be required for vending machines which require cooling/refrigeration.

Electrical Provide convenience and counter height GFCI receptacles. Provide electrical connections for kitchen and training room equipment.

Lighting: Day lighting is acceptable but not required and shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.

2A.4 ADMINISTRATIVE AREAS, Cont'd

Communications:	Space shall have wall mounted telephone. Provide conduit for Cable TV and data for wall mounted flat screen TV. Provide conduit from wall outlet (for computer connection) to wall mounted flat screen TV.
FF&E:	<p>Provide 1 chair at table for each agent. Provide 1 table for every 6 agents and lounge seating (combination of sofas and lounge chairs with end table) appropriate for each facility.</p> <p>Provide microwaves (1 each), refrigerators w/ icemakers (1 each), dishwasher (1 each), stove top and oven (1 each) and vending machines (2 each-1 for food and 1 for drinks).</p> <p>Provide clock, wall mounted flat screen TV and 6 feet wide marker board / tackable board.</p>
Casework and Millwork:	Provide a minimum of 12'-0" L, 24" D solid polymer counter top with kitchen sink, base cabinets with adjustable shelves and upper cabinets with adjustable shelves.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling tile/grid system.
Other:	Provide an area and appropriate containers for recycling.

2A.4 ADMINISTRATIVE AREAS, Cont'd

2A.4.4 Small Interview: The Small Interview Room is to interview suspects. These rooms are located within the secured perimeter of suspect area. This is a closed room where one agent and one suspect will sit across one another in an interview. The room shall have vandal proof wall or ceiling mounted audio/video equipment. The furniture shall be heavy duty so as not to be easily thrown around or broken if violent episodes occur. The suspect may even be handcuffed to the chair.

Occupancy: 2

Adjacency Requirements: At least two small Interview Rooms shall be provided. These rooms shall be located within the 'suspect secured area/corridor' and adjacent to Polygraph suite. The Interview Rooms shall be adjacent to each other if possible.

Space Requirement: Approximately 150 SF

Mechanical: Space shall provide heating, cooling and ventilation

Electrical: Provide 120V duplex receptacles

Lighting: Day lighting is not required, and shall be controlled when used. Provide recessed fluorescent light fixtures. Do not provide occupancy sensors.

Communications: Provide telephone and data connections

FF&E: Provide 2 solid wood chairs with legs and one metal desk (60" x 30") with plastic laminate top. The room shall have vandal proof wall or ceiling mounted audio/video equipment.

Finishes: Carpet, rubber base, painted GWB walls and suspended acoustic ceiling tile/grid system.

2A.4 ADMINISTRATIVE AREAS, Cont'd.**2A.4.5 Large Interview:**

The purpose of this room is to interview witnesses. It needs to be a closed space with a conference table and seating for 6-8. This room will allow for agents and multiple witnesses to sit around a table. These interview rooms will normally be located near the Visitor Waiting Room but definitely outside of the 'suspect area'. Witnesses and suspects should not cross paths. The room shall have vandal proof wall or ceiling mounted audio/video equipment. The furniture shall be comfortable as persons could be in the room for extended periods of time. Food or coffee might be provided either on the credenza/buffet in the room or in the Multi-purpose Lounge.

Occupancy:	8
Adjacency Requirements:	Visitor waiting and SAC
Space Requirement:	180 – 250 SF
Mechanical:	Provide heating, cooling and ventilation
Electrical;	Provide 120V duplex receptacles
Lighting:	Day lighting is not required but shall be controlled when used. Provide recessed fluorescent light fixtures. Do not provide occupancy sensors.
Communications:	Provide telephone and data connections.
FF&E:	Provide wood conference table (42" x 84"), 8 chairs on castors and a credenza/buffet. The room shall have vandal proof wall or ceiling mounted audio/video equipment.
Accessories:	Coat hooks on back of door and clock
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

2A.5 SPECIAL USE AREAS

2A.5.1 Suspect Waiting:

This room is to be a secure area for suspects to wait during the interrogation process. Space shall be easy to clean. Lighting shall not be controlled from inside room as suspects should not be able to turn lights off inside the room. No occupancy sensors in this room. Lighting shall accommodate function of the one way mirror-window from the Observation Room. Design shall be intended to protect CIDC personnel while containing suspects. The furniture shall be heavy duty so as not to be easily thrown around or broken if violent episodes occur. The suspect may even be handcuffed to the chair.

Occupancy:	3-4
Adjacency Requirements:	Near Poly Office; Observation Room and Suspect Toilet. Room shall be in secured perimeter of the 'suspect area'.
Space Requirement:	Minimum 100 SF.
Mechanical:	Provide heating, cooling and ventilation
Electrical:	Provide 120V tamper-resistant duplex receptacles.
Lighting:	Day lighting is not allowed. Provide tamper proof recessed fluorescent fixtures. Do not provide occupancy sensors. Light switch shall be outside room.
Communications:	Do not provide telephone or data.
FF&E:	Provide 3-4 each heavy duty wood seating without upholstery and one end table.
Finishes:	No floor and base material, painted impact resistant GWB walls and ceiling.
Other Requirements:	Provide one way mirror-window from Observation Room into Suspect waiting. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6. Provide heavy duty metal door/frame with window and special security hardware accessible only from outside the room. It is possible that no hardware at all will be used on the interior side of the door.

2A.5 SPECIAL USE AREAS, Cont'd.

2A.5.2 Suspect Toilet: Provide single occupancy, accessible unisex toilet room. Arrange the entrance to provide clear vision from Suspect Waiting. This toilet shall only to be used by suspects. Floors shall be sealed concrete. No occupancy sensors in this area. Lighting shall be controlled from outside the Suspect Waiting Room.

Adjacency Required: Adjacent to Suspect Waiting

Space Requirement: As required by code

Plumbing: Efficiently locate toilet. Lavatories shall be vandal proof and have automatic valves. Installation shall determine if the valves are battery or hardwired. Provide a tamperproof floor drain with deep seal trap, located in center of room.

Mechanical: Space shall provide heating, cooling and ventilation.

Electrical: Provide a 120V GFI duplex receptacle for general maintenance purpose.

Lighting: Day lighting is not allowed. Provide vandal proof recessed fluorescent light fixtures. Do not provide occupancy sensors.

Communications: Do not provide telephone or data.

FF&E: Provide wall hung, stainless steel lavatory, and wall hung stainless steel toilet with non breakable mirror. Include full paper towel dispenser/waste receptacle; one soap dispenser and one toilet tissue dispenser. Toilet accessories shall be fabricated from stainless steel, provide semi recessed units where possible

Finishes: Sealed Concrete floor, ceramic wall tile to ceiling and impact resistant GWB walls and ceilings or plaster painted ceilings.

Other Requirements: Special construction is required for sound attenuation at the perimeter of the Polygraph 'Suite'. Comply with Department of Army Polygraph activities Regulation AR195-6. Provide heavy duty metal door/frame with window with no hardware on either side of the door.

2A.5 SPECIAL USE AREAS, Cont'd.

2A.5.3 Polygraph Office:	This office is part of the Polygraph suite which also includes the Polygraph Room and Observation Room. This is an office where the polygraph officer manages the documents and other materials for polygraph exam. The office provides space for one polygraph person to monitor suspect's entry, waiting, exam and storage of materials which are necessary to operate the equipment. Operation is 24/7.
Occupancy:	2
Adjacency Requirements:	Poly Exam and entry into entry into Polygraph area. Room shall be in secured suspect area.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling and ventilation
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed, provide recessed fluorescent lighting fixtures with occupancy sensors.
Communications:	Provide telephone and data connections
FF&E:	Provide one desk with return (w/ lockable pedestals) and one desk chair (no castors).
Finishes:	Broadloom Carpet, resilient base, painted GWB walls and suspended acoustic ceiling grid/tile system
Other Requirements:	Special construction is required for sound attenuation, the partitions around the office may require acoustical wall materials if necessary to meet the requirements in Department of Army Polygraph activities Regulation AR 195-6.

2B.5 SPECIAL USE AREAS, Cont'd.

2A.5.4 Polygraph Exam:	Provide room for conducting polygraph exams to suspects and/or witnesses. There will be one examiner and one person taking the exam. Complete silence is required to perform a polygraph exam. The construction of the perimeter of the room, floor and ceiling must provide maximum acoustical benefit. Chairs shall not squeak or move around on casters. Any noise can distract the person taking the exam and the slightest movement can cause adverse effects on the integrity of the results. Lighting shall be designed to accommodate function of one way mirror from Observation Room. Operation is 24/7.
Occupancy:	2
Adjacency Requirements:	Exam room must be located away from distracting noises such as street and office traffic, telephone or latrines. Access is to be through Poly Office and adjacent to Observation Room. Polygraph Exam Room shall be in the secured suspect area.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling and ventilation and accommodate special requirements sound attenuation for polygraph functions
Electrical	Provide 120V duplex receptacles
Lighting:	Day lighting is not allowed. Provide indirect recessed fluorescent lighting fixtures. A person taking the exam shall not be disturbed by looking up into direct lighting. Do not provide occupancy sensors. Lighting shall be designed to accommodate function of one way mirror
Communications:	Do not provide telephone or data.
FF&E:	Provide seating for two(solid wood chairs with legs and one desk or table (30" x 60"), metal with plastic laminate top. Chairs must not have upholstery or castors to eliminate possibility of sound. The room shall have vandal proof wall or ceiling mounted audio/video
Finishes:	Antistatic Broadloom carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

2A.5 SPECIAL USE AREAS, Cont'd.

Other Requirements: Provide one way mirror from Observation Room into Suspect waiting. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6

2A.5.5 Observation Room: Provide a closed area between suspect waiting and Polygraph Exam Room for observation of suspects in each area. Provide visibility through one way mirrors. The room must have special construction for sound attenuation. There shall be a continuous 12" wide plastic laminate ledge under each window. Windows shall be a minimum of 42" above the finished floor. Viewing will be done while standing or on a stool. There shall be space for audio/video equipment and a computer with a monitor. Operation is 24/7.

Occupancy: 2

Adjacency Requirements: Between Suspect Waiting and Poly Exam Room. The room shall be accessible from corridor entry in secured suspect area.

Space Requirement: Minimum 80 SF

Mechanical: Space shall provide heating, cooling and ventilation. System shall be designed to minimize sound from supply and return systems

Electrical Provide 120V duplex receptacles.

Lighting: Day lighting is not allowed. Provide recessed fluorescent dimmable lighting fixtures. Do not provide occupancy sensors. Lighting shall be designed to accommodate function of one way mirror

Communications: Do not provide telephone or data.

FF&E: Though persons are expected to stand during observation, provide two each wood straight leg stools without upholstery or castors so as to reduce any movement or noise which could affect the results of the tests.

Finishes: Broadloom carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

2A.5 SPECIAL USE AREAS, Cont'd.

Other Requirements: Observation Room must be located away from distracting noises such as street and office traffic or telephones. Observation Room shall be in the secured suspect area.

Provide one way mirror from Observation Room into Polygraph Exam Room. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6.

2A.5.6 Evidence Processing:

All evidence that is brought into the CIDC must be processed. The agent will collect, label and prepare as required for handling by the evidence custodian. Operation is 24/7. Space shall be provided for a drying machine, a fuming machine and layout space for other equipment. The evidence processing agent will only use this room to perform the specialized tasks. Lockers shall be provided adjacent to the processing area to store the suspect's personal belongings (coats, wallets, jewelry).

Occupancy 1

Adjacency Requirements: Duty Office.

Space Requirement: See Appendix, Floor Plans

Mechanical: Provide heating, cooling and ventilation

Electrical: Provide 120V duplex receptacles

Lighting: Day lighting is not desirable, and shall be controlled when used. Provide recessed fluorescent lighting fixtures with occupancy sensors.

Communications: Provide telephone and data connections.

Finishes: Resilient floor, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

FF&E: Provide one desk with return with lockable pedestals. Provide two desk chairs, a guest chair and a layout table (minimum 30" x 60").

Other requirements: Accommodate space and power for drying chamber and super glue fuming machines. This equipment shall have integral ventilation system. Comply with 'Evidence Procedures' Army Regulation 195-5.

2A.5 SPECIAL USE AREAS, Cont'd.

2A.5.7 Evidence Custodian: All evidence that is brought into the CIDC must be passed to the Evidence Custodian to be placed in Evidence Depository. The agents will process the evidence and then submit this evidence to the custodian. The Evidence Custodian will label, document and prepare evidence as required to be stored in the Evidence Depository which is adjacent to the Evidence Custodian office or to mail out to other locations for testing. Operation is 24/7. The room will not be occupied full time. The evidence custodian will only use this room to perform the specialized tasks. They will have their own office space located with other personnel.

Occupancy	1
Adjacency Requirements:	Evidence Depository.
Space Requirement:	See Appendix, Floor Plans
Mechanical:	Provide heating, cooling and ventilation
Electrical:	Provide 120V duplex receptacles
Lighting:	Day lighting is not desirable, and shall be controlled when used. Provide recessed fluorescent lighting fixtures with occupancy sensors.
Communications:	Provide telephone and data connections.
Finishes:	Resilient floor tile and base, painted GWB walls and suspended acoustic ceiling grid/tile system.
FF&E:	Provide one desk with return and lockable pedestals. Provide two desk chairs, a guest chair and a layout table (minimum 30" x 60").
Other requirements:	Provide a doorway between the Evidence Processing Office and the Evidence Depository. This opening must have two consecutive doors. One door is to be of steel construction and one door to be of steel or wood construction. Special hardware and an intrusion detection system are required.
	Comply with 'Evidence Procedures' Army Regulation 195-5.

2A.5 SPECIAL USE AREAS, Cont'd.

2A.5.8 Evidence Depository: A secure room for the storage of evidence. Room shall be equipped with steel evidence storage lockers. Provide special arms lockers, refrigerated storage lockers and heavy duty open and closed shelves to store evidence. The Operation is 24/7.

Adjacency Requirements: Evidence Processing

Space Requirement: See Floor Plans.

Mechanical: Provide separate heating, cooling and ventilation

Electrical: Provide 120V duplex power receptacles. Provide electrical for refrigerated storage lockers.

Lighting: Day lighting is not allowed. Provide fluorescent lighting with occupancy sensor.

Communications: Provide telephone and data connections.

FF&E: Metal evidence storage lockers, refrigerated lockers, gun lockers, and heavy duty open and closed shelving. Quantity and type of lockers to be determined by the facility.

Finishes: Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system

Other requirements: Only one entry is allowed into the depository and there must be one opening with two consecutive doors. One door is to be of steel construction and one door to be of steel or wood construction. Special hardware and an intrusion detection system are required.

Comply with 'Evidence Procedures' Army Regulation 195-5.

2A.5 SPECIAL USE AREAS, Cont'd.**2A.5.9 Duty Office:**

This office shall be used by the agent on duty to process paperwork for suspects entering the facility. The office shall be located near the rear vestibule and have window to the back of the building if possible. The windows shall allow the Duty Officer to see the parking area and path to rear vestibule. The Operation is 24/7.

Adjacency Requirements: Rear vestibule of building

Space Requirement: See Floor Plans.

Mechanical: Provide separate heating, cooling and ventilation

Electrical: Provide 120V duplex power receptacles.

Lighting: Day lighting is desirable. Provide fluorescent lighting with occupancy sensor.

Communications: Provide telephone and data connections.

FF&E: Provide a desk with return, metal with plastic laminate top, one desk chair and one guest chair. Also include a four drawer lateral file cabinet with a lock for each drawer (for temporary evidence storage) and a four shelf open bookcase.

Finishes: Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system

2A.5 SPECIAL USE AREAS, Cont'd.

2A.5.10 Photo ID Room:	A work room for the processing of photo identification is required. Provide a camera mounted on the wall or on a tripod and a plastic coating dispenser for processing photos. A sink/counter will be provided for layout space and cleaning and finger printing equipment. This area operates 24/7.
Adjacency Requirements:	Duty Agent and within the 'suspect secured area'
Space Requirement:	See floor plans
Mechanical:	Provide heating, cooling and ventilation
Plumbing:	Provide a single sink with gooseneck faucet and disposal.
Electrical:	Provide 120V duplex receptacle at perimeter of room and GFI outlets above counter top.
Lighting:	Day lighting is not desirable and shall be controlled when used. Provide fluorescent lighting with occupancy sensor.
Communications:	Provide wall mounted telephone and data connections.
FF&E:	No furniture is required.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling tile/grid system.
Other requirements:	Provide a minimum of 10 lineal feet of solid polymer surface countertop with base and wall cabinets with adjustable shelves and upper wall cabinets with adjustable shelves and a service sink, faucets and disposal.

2A.5 SPECIAL USE AREAS, Cont'd.

2A.5.11 Arms Vault:	Provide a secure vault for the storage of arms and ammunition.
Function:	Secure storage of weapons
Adjacency Requirements:	Table of Organization and Equipment (TOE) and Storage.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling, dehumidification and ventilation.
Electrical:	Provide 120V duplex receptacle and electrical infrastructure for intrusion detection system.
Lighting:	Day lighting is not allowed. Provide fluorescent lighting with occupancy sensors.
Communications:	Provide empty conduit with pull string for government installed intrusions detection system.
FF&E:	Provide gun racks, shelving and clearing barrel. The quantity and type to be determined by the facility.
Equipment:	Intrusion detection system
Finishes:	Sealed concrete floor and epoxy painted CMU walls and concrete ceiling.
Other Requirements:	Provide GSA approved Class 5 vault door (w/ day gate). Walls and ceiling of Vault shall be reinforced concrete masonry or concrete. Floor shall be reinforced concrete. Rack anchor rings shall be provided. Comply with AR 190-11 Physical Security of Arms, Ammunition and Explosives.

2A.5 SPECIAL USE AREAS, Cont'd.**2A.5.12 TABLE OF ORGANIZATION and EQUIPMENT (TOE):**

The TOE is intended to store a variety of materials and equipment. Provide industrial grade double doors to the exterior. Items may include traffic gear, medical equipment, kits for hostage situations, kits for biological events. Some items may have to be stored in wire cages with locks which will also be inside the TOE. The agents will go to the TOE and gather the appropriate 'equipment to go box' before leaving the facility and return the equipment to the TOE upon their return.

There should be a burn barrel outside the TOE so the Agents may discard munitions upon their return.

Function:	Storage
Adjacency Requirements:	Adjacent to the COF in Battalion Headquarters' Buildings. Adjacent to the Arms Vault and Evidence Processing in the RA Buildings.
Space Requirement:	See floor plans
Mechanical:	Provide heating, cooling and ventilation.
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting (other than double doors) is not allowed. Provide ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards and occupancy sensors.
Communications:	Provide wall mounted telephone.
FF&E:	Heavy duty industrial open rack shelving 24" D and 30" D, minimum 20 lineal feet.
Finishes:	Sealed concrete floors and epoxy painted CMU walls.

2A.5 SPECIAL USE AREAS, Cont'd.**2A.5.13 RESIDENT AGENT CRIMINAL INTELLIGENCE CENTER (RA CIC):**

RA Resident Agent Criminal Intelligence Center is a closed meeting room with SIPRNET connections. There can be a small table used for meetings and/or a small workstation for the SIPRNET equipment.

Function:	Meeting room with a work station for SIPRNET
Occupancy:	4-5
Adjacency Requirements:	Centrally located and adjacent to Resident Agent Staff
Space Requirement:	150 – 200 SF
Mechanical:	Provide heating, cooling and ventilation. Mechanical system shall be designed to accommodate partial to full occupancy with temperature control separate from other portions of the building.
Electrical:	Provide convenience power receptacles at perimeter of room. If table is in center of room, provide power and data in the floor.
Lighting:	Daylight is not desirable. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide telephone and data connections. Also provide SIPRNET Connections as per 'Technical Guide for the Integration of the Secret Internet Protocol Router Network'.
FF&E:	Provide wood conference table and conference room seating on castors to accommodate 4-6 or 6-8 persons. Include separate work station in corner for SIPRNET equipment
Accessories:	Provide coat hook on back of door and clock
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.
Other:	Construction shall meet requirements of Technical Guide for the Integration of the Secret Internet Protocol Router Network (SIPRNET) published by USAISEC Criteria.

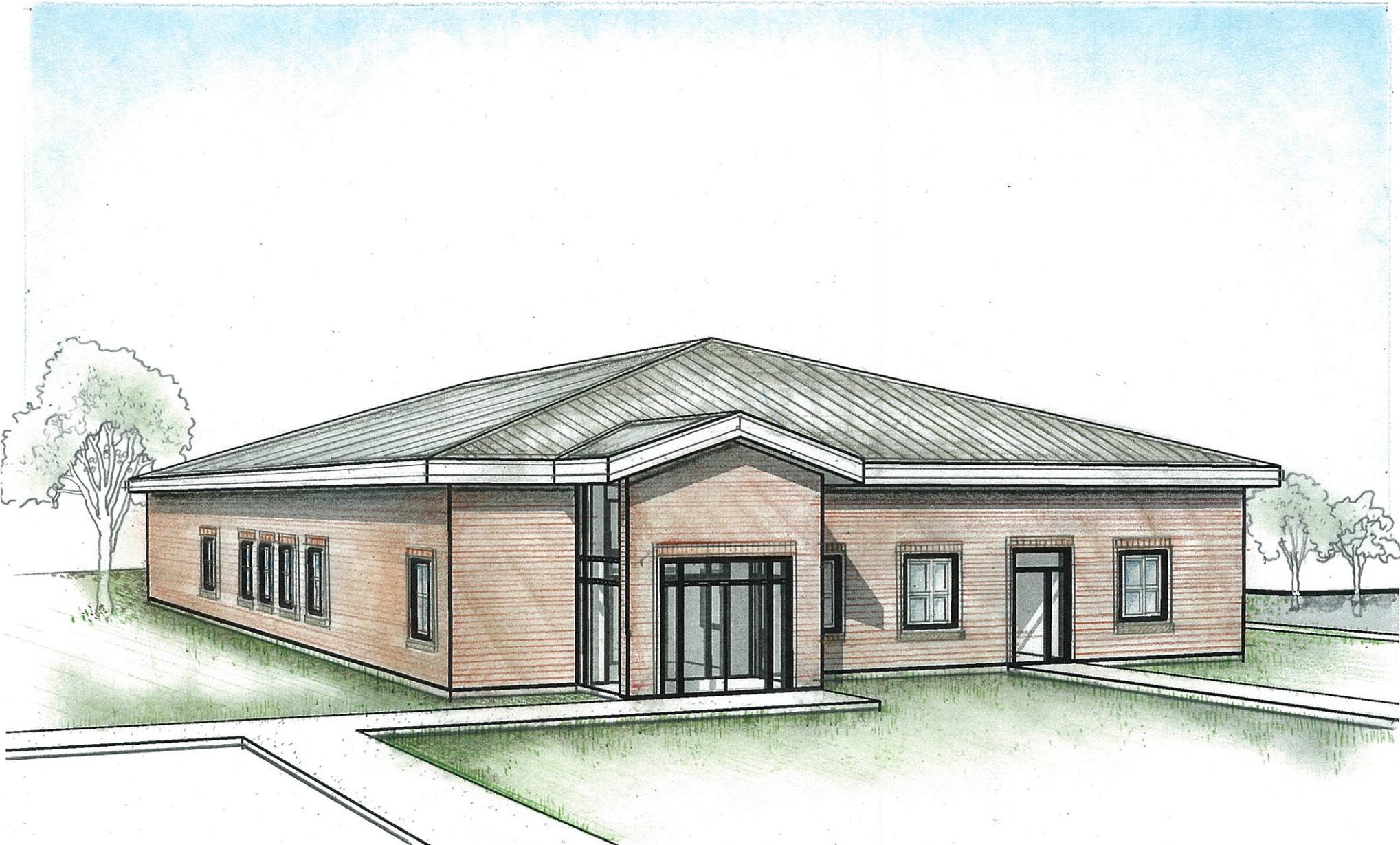
CIDC: 5-9 RA Field Operations Building

Room Adjacency Matrix

Date: 12.12.11

	Support Spaces	Lavatories	Shower	Janitor	Mech / Elec	TR Room	Administrative Spaces	Visitor Waiting	Admin- Operations	Multi-purpose Lounge	Interview Rooms	Special Use Areas	Suspect Waiting	Polygraph Office	Polygraph Exam	Observation Room	Suspect Toilet	Evidence Processing	Evidence Custodian	Evidence Depository	Duty Officer	Photo ID	Arms Vault	TOE Storage	RA CIC	Personnel	Special Agent in Charge	Investigative Ops Tech	Operations NCO	Drug Suppression Team	Special Agents	Remarks:		
Support Spaces																																		
Lavatories			1	2																												Directly adjacent to Visitor Waiting		
Shower		1		2																														
Janitor		1	2																															
Mech / Elec						1																		2										
TR Room					1																			2										
Administrative Spaces																																		
Visitor Waiting		2		3				1																									Directly adjacent to Vestibule @ front of Building	
Admin- Operations		2	3					1		4																								
Multi-purpose Lounge		1	2					3		4																								
Interview Rooms		3	4					1	2	4																	3	3	3	3	3	1 Small Interview to be w/in Suspect Area		
Special Use Areas																																		
Suspect Waiting													1	1	1	1						2	2	3	4									
Polygraph Office													1		1	1	1					2	2	3	4									
Polygraph Exam													1	1		1	1					2	2	3	4									
Observation Room													1	1	1		1					2	2	3	4									
Suspect Toilet													1	1	1	1						2	2	3	4									
Evidence Processing																			2	3	1	3												
Evidence Custodian																			2		1	2	3											
Evidence Depository																			2	1														
Duty Officer													2						1	2			1										3	
Photo ID													2						2		3	1											4	
Arms Vault																								1										
TOE Storage					4																	3	1											
RA CIC						2																				1	1	1	1	1				
Personnel																																		
Special Agent in Charge								3	2	4																	1	1	1	1	1			
Investigative Ops Tech								3	2	4																	1		1	1	1			
Operations NCO								3	2	4																	1	1		1	1			
Drug Suppression Team								3	2	4																	1	1	1		1			
Special Agents								3	2	4																	1	1	1	1				

1 Adjacent 2 On same corridor 3 Down the corridor 4 Same side/end of Bldg No Adjacency



P E R S P E C T I V E
USACE-CIDC RA 5-9 BUILDING /
USACE-CIDC RA 10-15 BUILDING

2B.1 FIELD OPERATIONS BUILDING, RA 10-15

2B.1.1 Program. The following list of Areas and/or Rooms should be programmed and planned into the CIDC for Field Operations Building for 10-15 Resident Agents. See 2B.2 for the 'Functional Space Descriptions and Performance Requirements' for each Area and/or Room.

2B.1.2 Support Areas

- Vestibule
- Women
- Men
- Shower
- Janitor
- Mechanical
- Electric
- Telecommunications Rm (TR)
- Corridors

2B.1.3 Administrative Areas

- Visitor Waiting
- Administration-Operations (Admin Ops)
- Multi-Purpose Lounge
- Small Interview
- Large Interview

2B.1.4 Special Use Areas

- Suspect Waiting
- Polygraph Office
- Polygraph Exam
- Observation Rm.
- Suspect Toilet
- Evidence Processing
- Evidence Custodian
- Evidence Depository
- Duty Office
- Photo ID
- Arms Vault
- Table of Organization and Equipment (TOE)
- Criminal Intelligence Center (CIC) w/ SIPRNET

2B.1 FIELD OPERATIONS BUILDING, RA 10-15, Cont'd.**2B.1.5 Personnel**

<u>Personnel</u>	<u>Space/Quantity</u>	<u>Grade</u>	<u>Office Prototype</u>
• Administration / Operations	1 Office / 2 Persons	E7 & E4 With 4 desks	OP6
• Special Agent in Charge (SAC) w/ SIPRNET	<u>1 Office / 1 Person</u>	CW4	OP3
SUB TOTAL Personnel	3 Each		
• Criminal Investigator	1 Office / 1 Person	GS13	OP2
• Criminal Intelligence	1 Office / 1 Person	CW3	OP6
• Investigations Ops Tech	1 Office / 1 Person	GS12	OP2
• Evidence Custodian	1 Office / 1 Person	E6	OP6
• Drug Suppression Team	2 Offices / 4 Persons	Enlisted	OP4
• Special Agents	<u>4 Offices / 8 Persons</u>	CW2, E5	OP4
SUB TOTAL Personnel	16 Each		
TOTAL Personnel	19 Each		

2B.1.6 Personnel Descriptions

- Administrations/Operations: Office Prototype OP6. They assist the operations NCO by performing all required administrative work for the detachment to include procuring supplies as needed. Also assists in performing database searches for name checks.
- Special Agent in Charge (SAC): Office Prototype OP3. The chief of a detachment is tasked with performing criminal investigations within a specific area of responsibility. Represents USACIDC to all personnel within the area of responsibility. Performs quality assurance reviews on investigations and coordinates complex investigations as required. If required, performs criminal investigations and performs protective service mission work.
- Criminal Investigator (Crim Invest): Office Prototype OP2. They coordinate criminal investigations across the teams. Performs criminal investigations when required and also performs protective service mission work as required.

2B.1 FIELD OPERATIONS BUILDING, RA 10-15, Cont'd

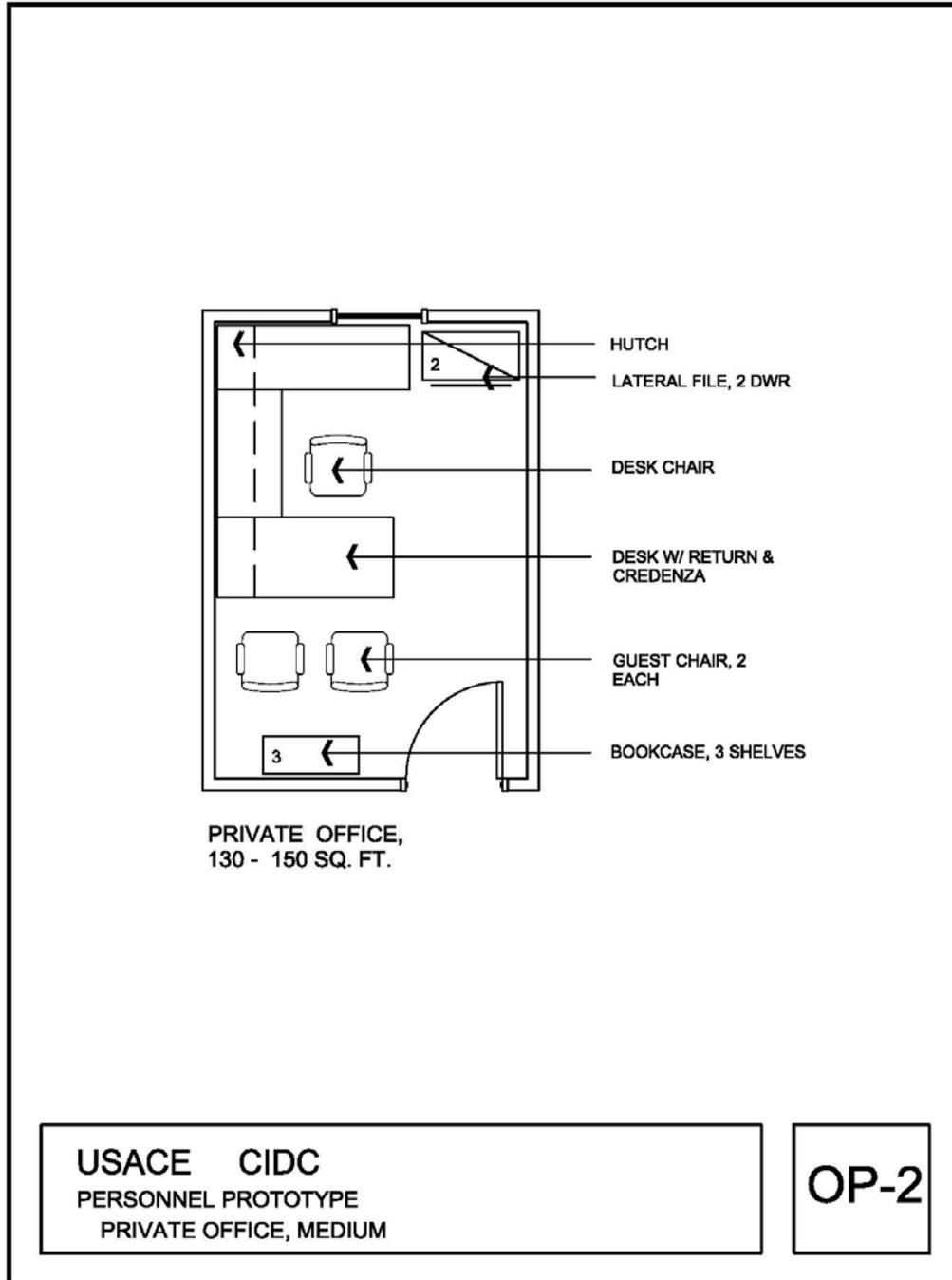
- Criminal Intelligence (Crim Intel): Office Prototype OP6. They procure and analyze available area of responsibility for criminal information for suspicious activities and trends that could adversely impact Army or DoD interests. Reviews and analyses investigative cases for actionable or suspicious information. Liaises with and shares criminal intelligence with other law enforcement agencies within the detachment area of responsibility.
- Investigations Operations Technician (Invest Ops Tech): Office Prototype OP2: They perform all general investigative support required and perform work on investigative data base systems. Performs limited criminal intelligence work as required and in the absence of any administrative/operations support provides that support as needed.
- Evidence Custodian: Office Prototype OP6. Receives, catalogs, stores and documents all evidence gathered during investigative operations. Performs administrative review of case documentation to ensure all evidence is collected and stored
- Drug Suppression Team: Office Prototype OP4. Performs drug related criminal investigations. In coordination with state, local and national law enforcement performs drug suppression operations and stings.
- Special Agents: Office Prototype OP4. These personnel are part of a team and perform criminal investigations and also perform protective service, such as the Secret Service, when required.

2.B.2 PERSONNEL PROTOTYPES

2B.2.1 Office Prototype OP-2, Medium Sized Office – Single Person Occupancy,

Provide an enclosed space w/ door and lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

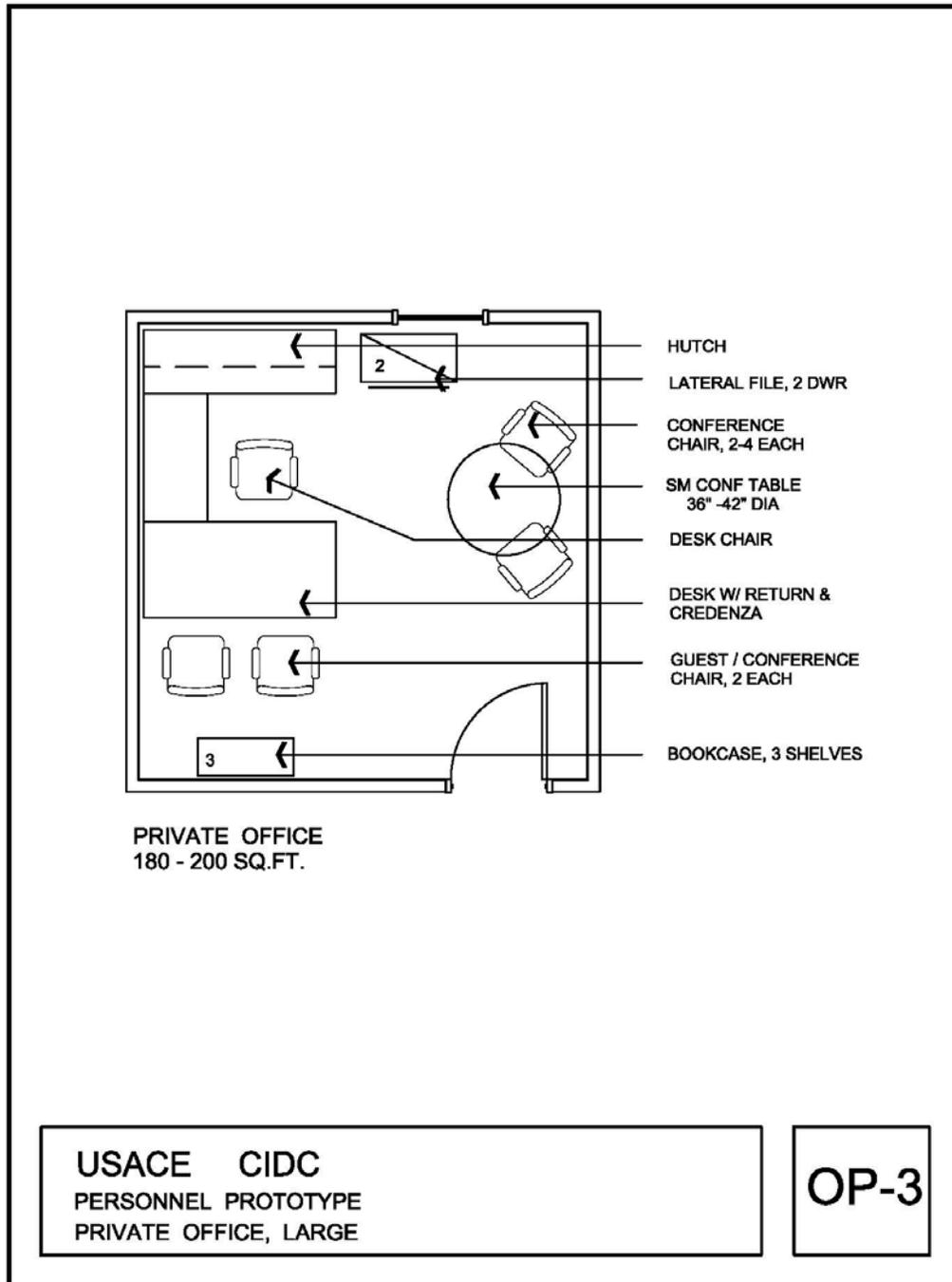
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 130 SF-150 SF
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide Four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors
Communications:	Provide telephone and data connections.
FF&E:	Government furnished equipment includes metal desk with plastic laminated tops and other metal casegoods <ul style="list-style-type: none"> • Desk, single pedestal: 30" x 60" or 36" x 72" • Return 24" x 48" • Credenza w/ 2 dwr file 24" x 60" or 24" x 72" • Hutch (over return or over credenza as appropriate) • Desk Chair • Guest Chair (2 each) • Bookcase, 3 shelves, 36" wide • Lateral File Cabinet, 2 drawer, 36" wide
Miscellaneous	Coat hooks on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2B.2 PERSONNEL PROTOTYPES, Cont'd.**2B.2.2 Office Prototype OP-3, Large Size Office – Single Person Occupancy**

Provide an enclosed space w/ door and lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

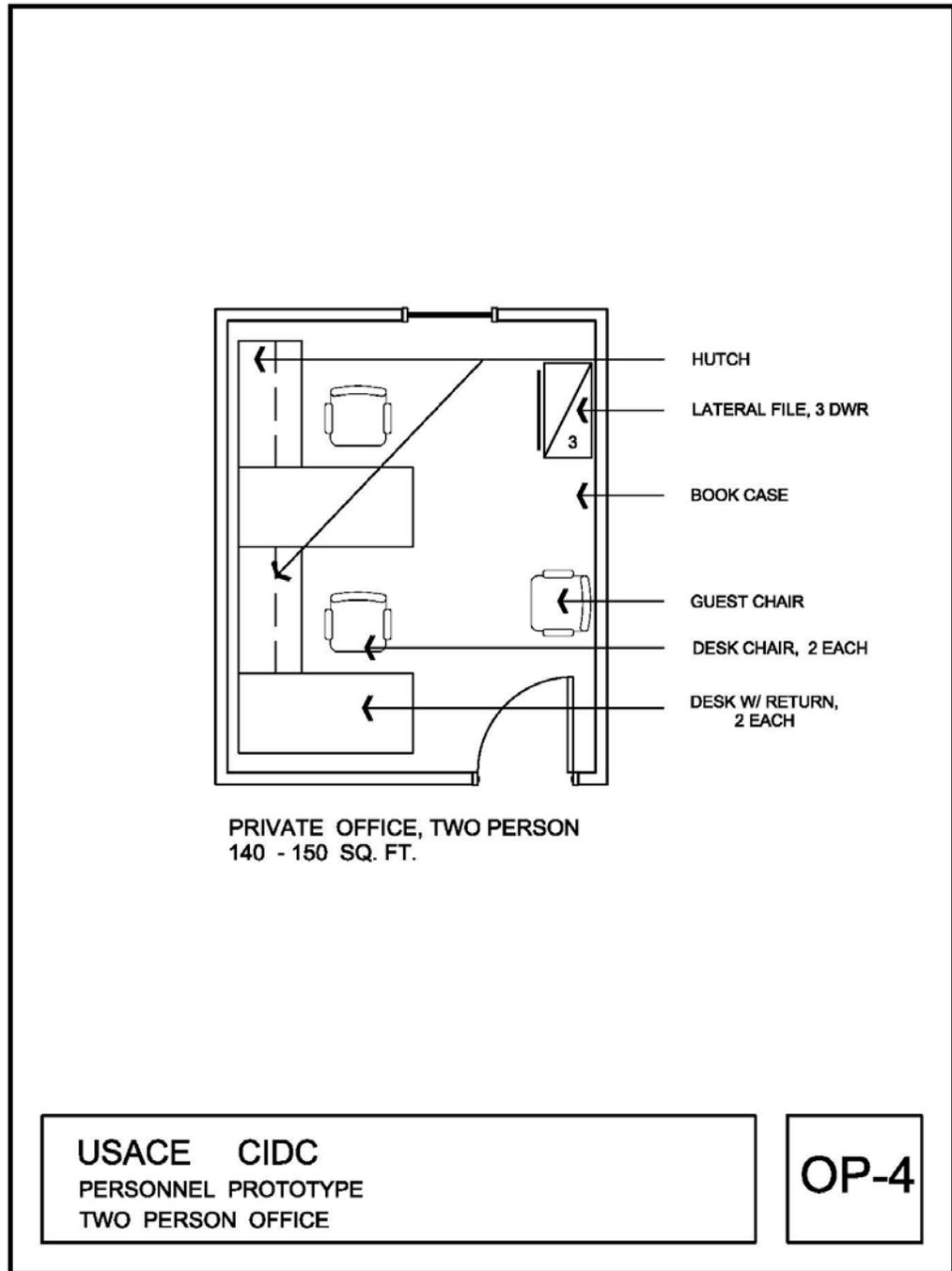
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 180 SF-200 SF.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors.
Communications:	Provide telephone and data connections. Provide a SIPRNET outlet in SAC Office and CIC Office.
FF&E:	Government furnished equipment includes wood or metal casegoods: <ul style="list-style-type: none"> • Desk, single pedestal: 36" x 72" • Return 24" x 48" • Credenza w/ 2 dwr file 24" x 72" • Hutch (to be used over return or credenza) • Desk Chair • Guest Chair (2) • Round Conference Table 36"-42" Diameter • Lateral File Cabinet, 2 drawer 36" wide
Miscellaneous	Coat hooks on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2B.2 PERSONNEL PROTOTYPES, Cont'd.**2B.2.3 Office Prototype OP-4 – Two Person Office**

Provide an enclosed space w/ door and lock for double person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

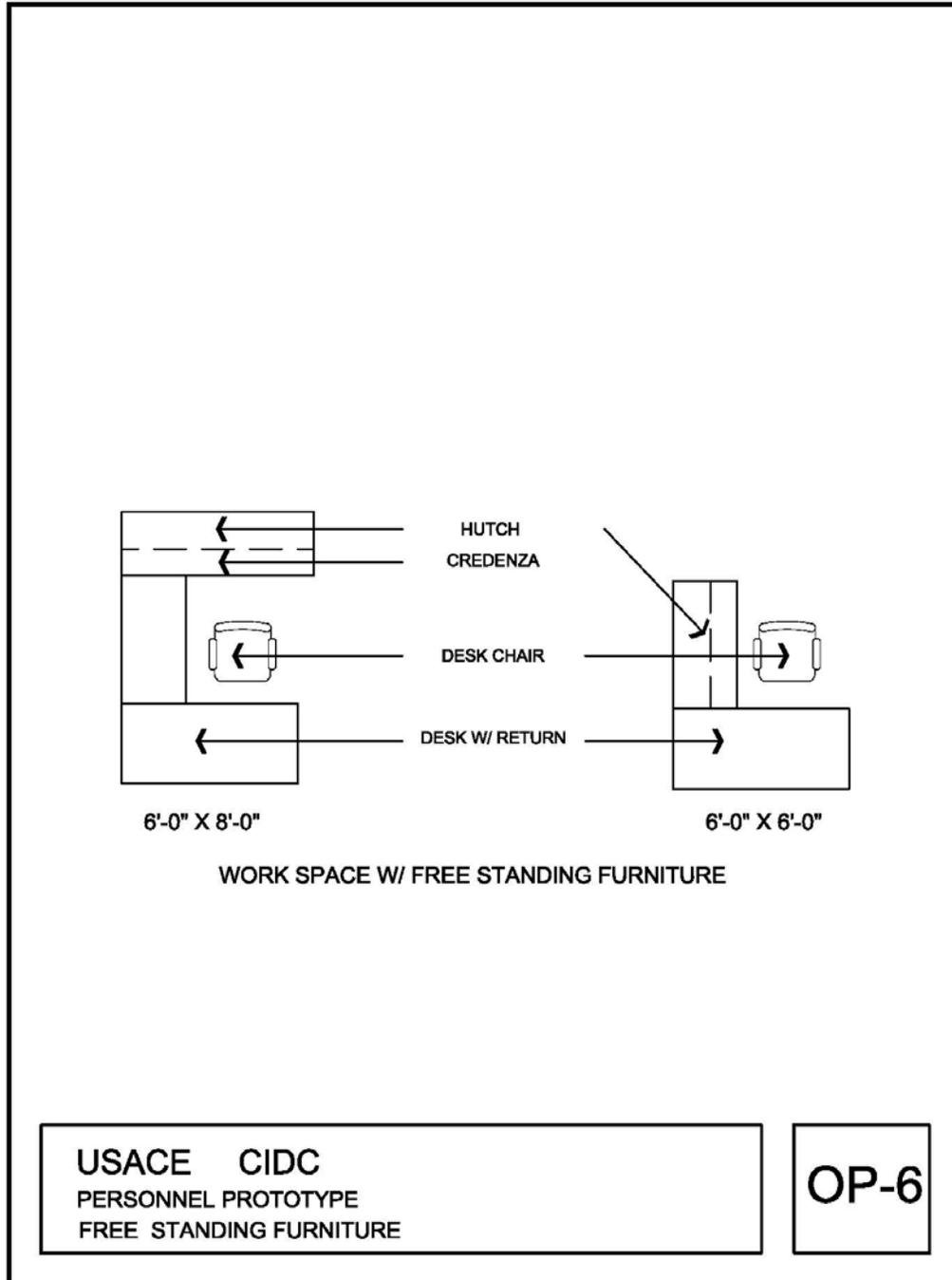
Function:	Office
Occupancy:	2
Space Requirement:	Varies from 140 SF-150 SF.
Mechanical:	Provide heating, cooling and ventilation
Electrical	Provide four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors.
Communications:	Provide telephone and data connections.
FF&E:	Government furnished equipment includes metal casegoods with wood grain plastic laminate tops: <ul style="list-style-type: none"> • Desk, single pedestal – (2 Each) 30" x 60" • Return – (2 Each) 24" x 42" • Hutch (to be used over return) • Desk Chair- (2 Each) • Guest Chair (1-2 Each) • Lateral File Cabinet, 3 shelves, 36" wide • Bookcase, 3 drawer 36" wide
Miscellaneous	Coat hooks on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2B.2 PERSONNEL PROTOTYPES, Cont'd.**2B.2.4 Office Prototype OP-6, Work Space with Free Standing Furniture - Single Person Occupancy**

Provide a Work Space with free standing furniture for single person occupancy. The size is to comply with personnel rank/grade and/or function.

Function:	Work Space with free standing furniture.
Occupancy:	1
Space Requirement:	Varies from 48 SF-64 SF
Mechanical:	NA
Electrical	Provide two (4) 120V duplex power receptacles
Communications:	Provided telephone and data connections.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors.
FF&E:	Government furnished equipment includes metal furniture with wood grained plastic laminate tops. <ul style="list-style-type: none"> • Desk w/ Pedestal 30" x 60" • Return 24" x 42" or 24" x 48" • Credenza: Optional 24" x 60" • Desk Chair • Hutch (to be used over return or credenza) • Note: Guest chairs, file cabinets and/or bookshelves to be provide adjacent to work station as required.
Miscellaneous	Coat hooks on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2B.3 SUPPORT AREAS

2B.3.1 Vestibule:

Vestibule is accessed from exterior and serves as a transition to the conditioned space of the building into the main lobby. The vestibule shall accommodate the maximum number of people determined by the occupancy load.

Function:	Entry into Visitor Waiting
Adjacency Requirements:	Exterior, Visitor Waiting, Corridors
Space Requirement:	Minimum 150 SF
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide 120V duplex power receptacles for maintenance.
Communications:	Provide intercom connections with paging speakers.
Finishes:	Quarry or porcelain tile and base with recessed walk off mat and GWB or plaster ceiling painted ceilings. Vestibule shall have glass windows and or GWB painted walls.

2B.3 SUPPORT AREAS, Cont'd

2B.3.2 Women:	Provide female toilet room with minimum number of fixtures. Include accessible fixtures as required by code. Arrange the entrance to provide visual privacy. This room will be used by visitors and staff. Doors shall be used designed with separate entries for visitors and staff.
Occupancy:	As required per code
Adjacency Req'd:	Visitor Waiting area and Men's Room
Space Requirement:	See Floor Plans
Plumbing:	Efficiently locate fixtures. Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain outside of traffic areas. Provide countertop with integral mounted lavatories. Provide wall hung toilets and urinals Lavatories and toilets shall have automatic valves. Installation shall determine if the valves are battery or hardwired.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide one (1) 120V GFI-duplex power receptacles at each sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power.
Lighting	Provide GWB ceiling with fluorescent fixtures.
Communications:	NA.
Equip and Accessories:	Countertop shall be solid surface material with integrated bowls. Provide solid polymer overhead-braced type toilet partitions at each toilet. Provide the following toilet accessories; one continuous mirror full width of countertop at lavatory; full length mirror, paper towel dispenser/waste receptacle; soap dispensers for each lavatory, one toilet tissue dispenser per toilet; one robe hook on each toilet partition door; one sanitary napkin/tampon vending machine. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile 4'-0" AFF and GWB or plaster painted ceilings.

2B.3 SUPPORT AREAS, Cont'd.

2B.3.3 Men:	Provide male toilet room with minimum number of fixtures. Include accessible fixtures as required by code. Arrange the entrance to provide visual privacy. This room will be used by visitors and staff. Doors shall be used designed with separate entries for visitors and staff.
Occupancy:	As required by code
Adjacency Req:	Visitor Waiting area and Women's Room
Space Requirement:	See Floor Plans
Plumbing:	Efficiently locate fixtures. Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain outside of traffic areas. Provide countertop with integral mounted lavatories. Provide wall hung toilets and urinals Lavatories and toilets shall have automatic valves. Installation shall determine if the valves are battery or hardwired.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide one (1) 120V GFI-duplex power receptacles at sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power.
Lighting:	Provide GWB ceiling with fluorescent fixtures.
Communications:	NA
Equip and Accessories:	Countertop shall be solid surface material with integrated bowls. Provide solid polymer overhead-braced type toilet partitions at each toilet. Provide the following toilet accessories; one continuous mirror full width of countertop at lavatory; full length mirror, paper towel dispenser/waste receptacle; soap dispensers for each lavatory, one toilet tissue dispenser per toilet and one robe hook on each toilet partition door. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile 4'-0" AFF and GWB or plaster painted ceilings.

2B.3 SUPPORT AREAS, Cont'd.

2B.3.4 Shower Room:	Provide accessible shower room with toilet and countertop lavatory for staff.
Function:	Shower room for staff
Adjacency Required:	Adjacent to other areas with plumbing (i.e., Men's and Women's Rooms, Janitor's closet, Staff Break Area)
Space Requirement:	See Floor Plans
Plumbing:	Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain in Shower Area. Efficiently locate fixtures. Toilets and lavatory shall have automatic valves. Installation shall determine if the valves are battery or hardwired. Do not use prefabricated shower stall.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical	Provide one (1) 120V GFI-duplex power receptacles at counter top height at the sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power
Lighting:	Provide GWB ceiling with fluorescent fixtures with prismatic lenses. Provide occupancy sensors.
Communications:	NA
FF&E:	Provide five times the quantity of lockers as toilet/urinal fixtures. Provide half size lockers (stack two high). The lockers shall be solid polymer, have two tiers and mounted above raised concrete platform base. Provide one mirror above lavatory/vanity, one full length mirror, one paper towel dispenser/waste receptacle per two sinks; one soap dispenser per sink; one robe hook per stall. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile to ceiling in shower locations and wet walls and GWB or plaster painted ceilings.

2B.3 SUPPORT AREAS, Cont'd.

2B.3.5 Janitor:	Provide one Janitor closet for building maintenance.
Function:	Janitors Closet is to store cleaning and maintenance housekeeping supplies and equipment.
Adjacency:	Men's and Women's Room
Space Requirement:	Minimum 48 SF
Plumbing:	Provide floor mounted mop sink and floor drain. Faucet shall be designed to support a bucket and have a threaded end to receive a hose.
Mechanical:	Space shall be ventilated
Electrical	Provide GFI-protected convenience receptacle adjacent to the shelving.
Lighting:	Provide wall mounted or ceiling hung industrial linear fluorescent lights.
Communications:	NA
Equipment:	Provide a wall mounted metal strip to hang mops locate near floor mounted mop sink. Include one each 3'-0" wide open industrial type metal shelving to store cleaning supplies.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system

2B.3 SUPPORT AREAS, Cont'd.

2B.3.6 Mechanical:	Provide a dedicated interior space for plumbing, fire protection, and HVAC equipment with access from the exterior. Size and locate rooms (including doorways) to allow equipment removal and maintenance. Provide floor openings and vertical openings as necessary.
Function:	Space for mechanical systems to service the building.
Adjacency Requirements:	Locate main mechanical room on ground floor with double doors opening to the exterior. Mechanical room shall not be used for storage or other purposes; access shall be limited to authorized personnel. Locate exterior mechanical equipment and air intake and openings in exterior walls to comply with force protection standards.
Space Requirement:	This area is part of the gross area factor calculation. The area is to be equal to or greater than 5% of the gross building area for planning purposes. Actual required area shall be determined during programming based upon geographical location.
Plumbing:	Provide floor drain, faucet and other plumbing as required for functions of space.
Mechanical:	Provide heating, cooling, ventilation and exhaust as required.
Electrical	Provide convenience power receptacles as well as required service for equipment.
Lighting:	Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.
Communications:	Provide telephone service for energy management system and a wall mounted telephone outlet general use.
Equipment:	As required.
Finishes:	Sealed concrete floor, painted GWB walls with exposed structure ceiling.

2B.3 SUPPORT AREAS, Cont'd.

Other requirements: Locate air intake and exhaust openings to provide optimum indoor air quality. Locate air intakes to comply with AT/FP requirements.

2B.3.7 Electrical: Provide dedicated interior space with exterior access for electrical equipment. Size and locate room (including doorways) to allow equipment removal and maintenance.

Function: Electrical support space for the building

Adjacency Requirements: Access from exterior, and interior corridor and adjacent to the Mechanical Room.

Space Requirement: The area is part of the gross area factor calculation. Total area is to be equal to or greater than 5% of the gross building area for planning purposes. Actual required area shall be determined during programming based upon geographical location.

Mechanical: Space shall be ventilated.

Plumbing: Do not run plumbing over electrical panels.

Electrical: Provide 120V convenience power receptacles.

Lighting: Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.

Communications: Provide telephone service for fire alarm and security systems. Where transmitters and antennas are used by the installation, provide compatible equipment. Provide a wall-mounted telephone outlet for general communications.

Equipment: As required.

Finishes: Sealed concrete floor, painted GWB walls with exposed structural ceiling.

2B.3 SUPPORT AREAS, Cont'd.

Electrical service to the building shall be underground. Provide masonry screen walls with lockable metal access gates around outdoor equipment. It is preferable to locate transformer within the screened mechanical equipment. Comply with AT/FP standards.

2B.3.8 Telecommunication Room: (TR): A Communications room is required to manage building connection to telephone, fiber optic, cable television, and other infrastructure. The room shall serve as a primary means of distributing information/communications through the facility to desktops.

Function:	Communications service to the building
Adjacency Requirements:	Mechanical Room and Electrical Room
Space Requirement:	The area is part of the gross area factor calculation.
Plumbing:	Not Applicable
Mechanical:	Provide adequate cooling for respective equipment in an independently climate controlled room. This equipment shall provide year-round ambient temperature control to protect all installed electronic equipment.
Electrical;	Provide electrical support as required
Lighting:	Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.
Communications:	Provide telephone and data connections
Equipment:	GFGI distribution hardware, switches, servers, etc. Provide backboards and racks.
Finishes:	Sealed concrete floor, painted GWB walls with exposed structural ceiling.
Other requirements:	Route communications service to building's Entrance Facility (EF) via underground 4" conduits.

2B.3 SUPPORT AREAS, Cont'd.

2B.3.9 Corridors:	Provide as required for circulation. Minimum corridor width shall be as required by applicable codes, but not less than 5' -0" wide for administrative areas.
Function:	Circulation and egress; movement of equipment and personnel throughout the building. Provide insulated hollow metal doors and frames for exterior service areas.
Adjacency Requirements:	Exterior entrances and offices
Space Requirement:	The total net area as required by the design. The net area of corridors is part of the gross area factor calculation for the project.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical	Provide 120V duplex receptacles for convenience.
Lighting:	Day lighting is not required, and shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide public address system in corridors and throughout public areas.
FF&E:	Provide room signage at doors to each room.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system,
Other Requirements:	Coordinate user requirements for access control of exterior doors. Where equipment on carts or dollies is regularly moved through corridors, provide wall and corner guard protection.

2B.4 ADMINISTRATIVE AREAS

2B.4.1 Visitor Waiting:	This area shall be used by visitors to the facility. The visitors are usually witnesses. This area shall be available 24/7 for use by visitors. Provide access to Men's and Women's Toilet but without access to other parts of the building
Occupancy	Seating for 4 guests.
Adjacency Requirements:	Vestibule entry, Administrative Operations.
Space Requirement:	Provide a minimum area of 150 SF or more as may be required for different size facilities.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide 120V duplex receptacles.
Lighting:	Provide recessed fluorescent light fixtures.
Communications:	Provide wall mounted telephone.
FF&E:	Provide lounge seating for two and one side table.
Finishes:	Carpet, rubber base, painted GWB walls, or vinyl wallcovering and suspended acoustic ceiling grid/tile system,
Other Requirements:	Provide a bullet proof communication /transaction window and counter/ledge into Administration – Operations Office.

2B.4 ADMINISTRATIVE AREA, Cont'd.

2B.4.2 Administration - Operations: One large room with open office space for three - four (3-4) administrative staff. Office shall be located adjacent to Visitor Waiting, and shall maintain visual control of the front door. This space is where all administrative support functions are coordinated for the operation of the facility to include procuring all required supplies and coordinating housekeeping and maintenance of file storage, safe storage and reception.

Provide a bullet proof communication/transaction window and counter/ledge into Visitor Waiting Room. The partition (above, below and surrounding) at the transaction window shall also be bullet proof for the protection of Administrative-Operations personnel.

Occupancy:	1-2 full time and 2-4 part time
Adjacency Requirements:	Visitor Waiting
Space Requirement:	See Floor Plans
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is desirable but shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide telephone and data connections.
FF&E:	Furniture can be freestanding or system furniture panels and components (OP-5 or OP-6). Provide three each 3-drawer lateral file cabinets (36" wide) and 1 each 5-drawer high safe per desk at a minimum. Final storage requirements are to be determined by each facility.
Accessories	Provide one coat hook per person on back of door or on systems furniture panels. Provide one clock.
Casework and Millwork:	Provide a 60" L, 24" D and 1.5" thick solid polymer work surface with backsplash and lower closed cabinets with adjustable shelves. Provide a minimum of 3 each quadraplex power outlets and 3 each LAN outlets above worksurface for a printer, copier, fax and any other site specific equipment.

2B.4 ADMINISTRATIVE AREAS, Cont'd.

Finishes: Carpet, rubber base, painted GWB walls
suspended acoustical ceiling tile/grid system.

2B.4.3 Multi-Purpose Lounge: This area is for multiple functions. It serves as a kitchen / break area with accommodations for a classroom / training configuration. Provide casework, upper and lower cabinets to accommodate the fixtures described under 'plumbing'. Provide an area and containers for recycling and at least two vending machines. The furniture shall be arranged to accommodate the respective functions.

Occupancy: Provide one chair at table for each agent.

Adjacency Requirements: Centrally located for maximum convenience to all staff

Space Requirement: Varies on size of building and quantity of occupants. The kitchen/vending area shall require 150-200 SF. Should a classroom/meeting room function be required, estimate an additional 200-250 SF. See Appendix, Floor Plans.

Mechanical: Space shall provide heating, cooling and ventilation. Heat load calculations shall consider the quantity of users and the additional demands for stove top, oven and vending machines.

Plumbing: Plumbing connections for a refrigerator ice maker and coffee maker. Provide stainless steel double bowl sink with disposal, faucets and instantaneous hot water dispenser. Water could be required for vending machines which require cooling/refrigeration.

Electrical Provide convenience and counter height GFCI receptacles. Provide electrical connections for kitchen and training room equipment.

Lighting: Day lighting is acceptable but not required and shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.

2B.4 ADMINISTRATIVE AREAS, Cont'd.

Communications:	Space shall have wall mounted telephone. Provide conduit for Cable TV and data for wall mounted flat screen TV. Provide conduit from wall outlet (for computer connection) to wall mounted flat screen TV.
FF&E:	<p>Provide 1 chair at table for each agent. Provide 1 table for every 6 agents and lounge seating (combination of sofas and lounge chairs with end table) appropriate for each facility.</p> <p>Provide microwaves (1 each), refrigerators w/ icemakers (1 each), dishwasher (1 each), stove top and oven (1 each) and vending machines (2 each-1 for food and 1 for drinks).</p> <p>Provide clock, wall mounted flat screen TV and 6 feet wide marker board / tackable board.</p>
Casework and Millwork:	Provide a minimum of 12'-0" L, 24" D solid polymer counter top with kitchen sink, base cabinets with adjustable shelves and upper cabinets with adjustable shelves.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling tile/grid system.
Other:	Provide an area and appropriate containers for recycling.

2B.4 ADMINISTRATIVE AREAS, Cont'd

2B.4.4 Small Interview:	The Small Interview Room is to interview suspects. These rooms are located within the secured perimeter of suspect area. This is a closed room where one agent and one suspect will sit across one another in an interview. The room shall have vandal proof wall or ceiling mounted audio/video equipment. The furniture shall be heavy duty so as not to be easily thrown around or broken if violent episodes occur. The suspect may even be handcuffed to the chair.
Occupancy:	2
Adjacency Requirements:	At least two small Interview Rooms shall be provided. These rooms shall be located within the 'suspect secured area/corridor' and adjacent to Polygraph suite. The Interview Rooms shall be adjacent to each other if possible.
Space Requirement:	Approximately 150 SF
Mechanical:	Space shall provide heating, cooling and ventilation
Electrical:	Provide 120V duplex receptacles
Lighting:	Day lighting is not required, and shall be controlled when used. Provide recessed fluorescent light fixtures. Do not provide occupancy sensors.
Communications:	Provide telephone and data connections
FF&E:	Provide 2 solid wood chairs with legs and one metal desk (60" x 30") with plastic laminate top. The room shall have vandal proof wall or ceiling mounted audio/video equipment.
Finishes:	Resilient floor, rubber base, painted GWB walls and suspended acoustic ceiling tile/grid system.

2B.4 ADMINISTRATIVE AREAS, Cont'd.**2B.4.5 Large Interview:**

The purpose of this room is to interview witnesses. It needs to be a closed space with a conference table and seating for 6-8. This room will allow for agents and multiple witnesses to sit around a table. These interview rooms will normally be located near the Visitor Waiting Room but definitely outside of the 'suspect area'. Witnesses and suspects should not cross paths. The room shall have vandal proof wall or ceiling mounted audio/video equipment. The furniture shall be comfortable as persons could be in the room for extended periods of time. Food or coffee might be provided either on the credenza/buffet in the room or in the Multi-purpose Lounge.

Occupancy:	8
Adjacency Requirements:	Visitor waiting and SAC
Space Requirement:	180 – 250 SF
Mechanical:	Provide heating, cooling and ventilation
Electrical;	Provide 120V duplex receptacles
Lighting:	Day lighting is not required but shall be controlled when used. Provide recessed fluorescent light fixtures. Do not provide occupancy sensors.
Communications:	Provide telephone and data connections.
FF&E:	Provide wood conference table (42" x 84"), 8 chairs on castors and a credenza/buffet. The room shall have vandal proof wall or ceiling mounted audio/video equipment.
Accessories:	Coat hooks on back of door and clock
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

2B.5 SPECIAL USE AREAS

2B.5.1 Suspect Waiting:

This room is to be a secure area for suspects to wait during the interrogation process. Space shall be easy to clean. Lighting shall not be controlled from inside room as suspects should not be able to turn lights off inside the room. No occupancy sensors in this room. Lighting shall accommodate function of the one way mirror-window from the Observation Room. Design shall be intended to protect CIDC personnel while containing suspects. The furniture shall be heavy duty so as not to be easily thrown around or broken if violent episodes occur. The suspect may even be handcuffed to the chair.

Occupancy: 3-4

Adjacency Requirements: Near Poly Office; Observation Room and Suspect Toilet. Room shall be in secured perimeter of the 'suspect area'.

Space Requirement: Minimum 100 SF.

Mechanical: Provide heating, cooling and ventilation

Electrical: Provide 120V tamper-resistant duplex receptacles.

Lighting: Day lighting is not allowed. Provide tamper proof recessed fluorescent fixtures. Do not provide occupancy sensors. Light switch shall be outside room.

Communications: Do not provide telephone or data.

FF&E: Provide 3-4 each heavy duty wood seating without upholstery and one end table.

Finishes: No floor and base material, painted impact resistant GWB walls and ceiling.

Other Requirements: Provide one way mirror-window from Observation Room into Suspect waiting. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6. Provide heavy duty metal door/frame with window and special security hardware accessible only from outside the room. It is possible that no hardware at all will be used on the interior side of the door.

2.B.5 SPECIAL USE AREAS, Cont'd.

- 2B.5.2 Suspect Toilet:** Provide single occupancy, accessible unisex toilet room. Arrange the entrance to provide clear vision from Suspect Waiting. This toilet shall only to be used by suspects. Floors shall be sealed concrete. No occupancy sensors in this area. Lighting shall be controlled from outside the Suspect Waiting Room.
- Adjacency Required: Adjacent to Suspect Waiting
- Space Requirement: As required by code
- Plumbing: Efficiently locate toilet. Lavatories shall be vandal proof and have automatic valves. Installation shall determine if the valves are battery or hardwired. Provide a tamperproof floor drain with deep seal trap, located in center of room.
- Mechanical: Space shall provide heating, cooling and ventilation.
- Electrical: Provide a 120V GFI duplex receptacle for general maintenance purpose.
- Lighting: Day lighting is not allowed. Provide vandal proof recessed fluorescent light fixtures. Do not provide occupancy sensors.
- Communications: Do not provide telephone or data.
- FF&E: Provide wall hung, stainless steel lavatory, and wall hung stainless steel toilet with non breakable mirror. Include full paper towel dispenser/waste receptacle; one soap dispenser and one toilet tissue dispenser. Toilet accessories shall be fabricated from stainless steel, provide semi recessed units where possible
- Finishes: Sealed Concrete floor, ceramic wall tile to ceiling and impact resistant GWB walls and ceilings or plaster painted ceilings.
- Other Requirements: Special construction is required for sound attenuation at the perimeter of the Polygraph 'Suite'. Comply with Department of Army Polygraph activities Regulation AR195-6. Provide heavy duty metal door/frame with window with no hardware on either side of the door.

2B.5 SPECIAL USE AREAS, Cont'd.

2A.5.3 Polygraph Office:	This office is part of the Polygraph suite which also includes the Polygraph Room and Observation Room. This is an office where the polygraph officer manages the documents and other materials for polygraph exam. The office provides space for one polygraph person to monitor suspect's entry, waiting, exam and storage of materials which are necessary to operate the equipment. Operation is 24/7.
Occupancy:	2
Adjacency Requirements:	Poly Exam and entry into entry into Polygraph area. Room shall be in secured suspect area.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling and ventilation
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed, provide recessed fluorescent lighting fixtures with occupancy sensors.
Communications:	Provide telephone and data connections
FF&E:	Provide one desk with return (w/ lockable pedestals) and one desk chair (no castors).
Finishes:	Broadloom Carpet, resilient base, painted GWB walls and suspended acoustic ceiling grid/tile system
Other Requirements:	Special construction is required for sound attenuation, the partitions around the office may require acoustical wall materials if necessary to meet the requirements in Department of Army Polygraph activities Regulation AR 195-6.

2B.5 SPECIAL USE AREAS, Cont'd.

2A.5.4 Polygraph Exam:	Provide room for conducting polygraph exams to suspects and/or witnesses. There will be one examiner and one person taking the exam. Complete silence is required to perform a polygraph exam. The construction of the perimeter of the room, floor and ceiling must provide maximum acoustical benefit. Chairs shall not squeak or move around on casters. Any noise can distract the person taking the exam and the slightest movement can cause adverse effects on the integrity of the results. Lighting shall be designed to accommodate function of one way mirror from Observation Room. Operation is 24/7.
Occupancy:	2
Adjacency Requirements:	Exam room must be located away from distracting noises such as street and office traffic, telephone or latrines. Access is to be through Poly Office and adjacent to Observation Room. Polygraph Exam Room shall be in the secured suspect area.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling and ventilation and accommodate special requirements sound attenuation for polygraph functions
Electrical	Provide 120V duplex receptacles
Lighting:	Day lighting is not allowed. Provide indirect recessed fluorescent lighting fixtures. A person taking the exam shall not be disturbed by looking up into direct lighting. Do not provide occupancy sensors. Lighting shall be designed to accommodate function of one way mirror
Communications:	Do not provide telephone or data.
FF&E:	Provide seating for two(solid wood chairs with legs and one desk or table (30" x 60"), metal with plastic laminate top. Chairs must not have upholstery or castors to eliminate possibility of sound. The room shall have vandal proof wall or ceiling mounted audio/video
Finishes:	Antistatic Broadloom carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

2B.5 SPECIAL USE AREAS, Cont'd.

Other Requirements: Provide one way mirror from Observation Room into Suspect waiting. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6

2A.5.5 Observation Room: Provide a closed area between suspect waiting and Polygraph Exam Room for observation of suspects in each area. Provide visibility through one way mirrors. The room must have special construction for sound attenuation. There shall be a continuous 12" wide plastic laminate ledge under each window. Windows shall be a minimum of 42" above the finished floor. Viewing will be done while standing or on a stool. There shall be space for audio/video equipment and a computer with a monitor. Operation is 24/7.

Occupancy: 2

Adjacency Requirements: Between Suspect Waiting and Poly Exam Room. The room shall be accessible from corridor entry in secured suspect area.

Space Requirement: Minimum 80 SF

Mechanical: Space shall provide heating, cooling and ventilation. System shall be designed to minimize sound from supply and return systems

Electrical: Provide 120V duplex receptacles.

Lighting: Day lighting is not allowed. Provide recessed fluorescent dimmable lighting fixtures. Do not provide occupancy sensors. Lighting shall be designed to accommodate function of one way mirror

Communications: Do not provide telephone or data.

FF&E: Though persons are expected to stand during observation, provide two each wood straight leg stools without upholstery or castors so as to reduce any movement or noise which could affect the results of the tests.

Finishes: Broadloom carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

2B.5 SPECIAL USE AREAS, Cont'd.

Other Requirements: Observation Room must be located away from distracting noises such as street and office traffic or telephones. Observation Room shall be in the secured suspect area.

Provide one way mirror from Observation Room into Polygraph Exam Room. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6.

2A.5.6 Evidence Processing:

All evidence that is brought into the CIDC must be processed. The agent will collect, label and prepare as required for handling by the evidence custodian. Operation is 24/7. Space shall be provided for a drying machine, a fuming machine and layout space for other equipment. The evidence processing agent will only use this room to perform the specialized tasks. Lockers shall be provided adjacent to the processing area to store the suspect's personal belongings (coats, wallets, jewelry).

Occupancy 1

Adjacency Requirements: Duty Office.

Space Requirement: See Appendix, Floor Plans

Mechanical: Provide heating, cooling and ventilation

Electrical: Provide 120V duplex receptacles

Lighting: Day lighting is not desirable, and shall be controlled when used. Provide recessed fluorescent lighting fixtures with occupancy sensors.

Communications: Provide telephone and data connections.

Finishes: Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

FF&E: Provide one desk with return with lockable pedestals. Provide two desk chairs, a guest chair and a layout table (minimum 30" x 60").

Other requirements: Accommodate space and power for drying chamber and super glue fuming machines. This equipment shall have integral ventilation system. Comply with 'Evidence Procedures' Army Regulation 195-5.

2B.5 SPECIAL USE AREAS, Cont'd

2A.5.7 Evidence Custodian: All evidence that is brought into the CIDC must be passed to the Evidence Custodian to be placed in Evidence Depository. The agents will process the evidence and then submit this evidence to the custodian. The Evidence Custodian will label, document and prepare evidence as required to be stored in the Evidence Depository which is adjacent to the Evidence Custodian office or to mail out to other locations for testing. Operation is 24/7. The room will not be occupied full time. The evidence custodian will only use this room to perform the specialized tasks. They will have their own office space located with other personnel.

Occupancy 1

Adjacency Requirements: Evidence Depository.

Space Requirement: See Appendix, Floor Plans

Mechanical: Provide heating, cooling and ventilation

Electrical: Provide 120V duplex receptacles

Lighting: Day lighting is not desirable, and shall be controlled when used. Provide recessed fluorescent lighting fixtures with occupancy sensors.

Communications: Provide telephone and data connections.

Finishes: Resilient floor tile and base, painted GWB walls and suspended acoustic ceiling grid/tile system.

FF&E: Provide one desk with return and lockable pedestals. Provide two desk chairs, a guest chair and a layout table (minimum 30" x 60").

Other requirements: Provide a doorway between the Evidence Processing Office and the Evidence Depository. This opening must have two consecutive doors. One door is to be of steel construction and one door to be of steel or wood construction. Special hardware and an intrusion detection system are required.

Comply with 'Evidence Procedures' Army Regulation 195-5.

2B.5 SPECIAL USE AREAS, Cont'd

2A.5.8 Evidence Depository: A secure room for the storage of evidence. Room shall be equipped with steel evidence storage lockers. Provide special arms lockers, refrigerated storage lockers and heavy duty open and closed shelves to store evidence. The Operation is 24/7.

Adjacency Requirements: Evidence Processing

Space Requirement: See Floor Plans.

Mechanical: Provide separate heating, cooling and ventilation

Electrical: Provide 120V duplex power receptacles. Provide electrical for refrigerated storage lockers.

Lighting: Day lighting is not allowed. Provide fluorescent lighting with occupancy sensor.

Communications: Provide telephone and data connections.

FF&E: Metal evidence storage lockers, refrigerated lockers, gun lockers, and heavy duty open and closed shelving. Quantity and type of lockers to be determined by the facility.

Finishes: Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system

Other requirements: Only one entry is allowed into the depository and there must be one opening with two consecutive doors. One door is to be of steel construction and one door to be of steel or wood construction. Special hardware and an intrusion detection system are required.

Comply with 'Evidence Procedures' Army Regulation 195-5.

2B.5 SPECIAL USE AREAS, Cont'd

2A.5.9 Duty Office: This office shall be used by the agent on duty to process paperwork for suspects entering the facility. The office shall be located near the rear vestibule and have window to the back of the building if possible. The windows shall allow the Duty Officer to see the parking area and path to rear vestibule. The Operation is 24/7.

Adjacency Requirements: Rear vestibule of building

Space Requirement: See Floor Plans.

Mechanical: Provide separate heating, cooling and ventilation

Electrical: Provide 120V duplex power receptacles.

Lighting: Day lighting is desirable. Provide fluorescent lighting with occupancy sensor.

Communications: Provide telephone and data connections.

FF&E: Provide a desk with return, metal with plastic laminate top, one desk chair and one guest chair. Also include a four drawer lateral file cabinet with a lock for each drawer (for temporary evidence storage), and a four shelf open bookcase.

Finishes: Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system

2B.5 SPECIAL USE AREAS, Cont'd.**2A.5.10 Photo ID Room:**

A work room for the processing of photo identification is required. Provide a camera mounted on the wall or on a tripod and a plastic coating dispenser for processing photos. A sink/counter will be provided for layout space and cleaning and finger printing equipment. This area operates 24/7.

Adjacency Requirements:	Duty Agent and within the 'suspect secured area'
Space Requirement:	See floor plans
Mechanical:	Provide heating, cooling and ventilation
Plumbing:	Provide a single sink with gooseneck faucet and disposal.
Electrical:	Provide 120V duplex receptacle at perimeter of room and GFI outlets above counter top.
Lighting:	Day lighting is not desirable and shall be controlled when used. Provide fluorescent lighting with occupancy sensor.
Communications:	Provide wall mounted telephone and data connections.
FF&E:	No furniture is required.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling tile/grid system.
Other requirements:	Provide a minimum of 10 lineal feet of solid polymer surface countertop with base and wall cabinets with adjustable shelves and upper wall cabinets with adjustable shelves and a service sink, faucets and disposal.

2B.5 SPECIAL USE AREAS, Cont'd.

2A.5.11 Arms Vault:	Provide a secure vault for the storage of arms and ammunition.
Function:	Secure storage of weapons
Adjacency Requirements:	Table of Organization and Equipment (TOE) and Storage.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling, dehumidification and ventilation.
Electrical:	Provide 120V duplex receptacle and electrical infrastructure for intrusion detection system.
Lighting:	Day lighting is not allowed. Provide fluorescent lighting with occupancy sensors.
Communications:	Provide empty conduit with pull string for government installed intrusions detection system.
FF&E:	Provide gun racks, shelving and clearing barrel. The quantity and type to be determined by the facility.
Equipment:	Intrusion detection system
Finishes:	Sealed concrete floor and epoxy painted CMU walls and concrete ceiling.
Other Requirements:	Provide GSA approved Class 5 vault door (w/ day gate). Walls and ceiling of Vault shall be reinforced concrete masonry or concrete. Floor shall be reinforced concrete. Rack anchor rings shall be provided. Comply with AR 190-11 Physical Security of Arms, Ammunition and Explosives.

2B.5 SPECIAL USE AREAS, Cont'd.**2A.5.12 TABLE OF ORGANIZATION AND EQUIPMENT (TOE):**

The TOE is intended to store a variety of materials and equipment. Provide industrial grade double doors to the exterior. Items may include traffic gear, medical equipment, kits for hostage situations, kits for biological events. Some items may have to be stored in wire cages with locks which will also be inside the TOE. The agents will go to the TOE and gather the appropriate 'equipment to go box' before leaving the facility and return the equipment to the TOE upon their return.

There should be a burn barrel outside the TOE so the Agents may discard munitions upon their return.

Adjacency Requirements: Adjacent to the COF in Battalion Headquarters' Buildings. Adjacent to the Arms Vault and Evidence Processing in the RA Buildings.

Space Requirement: See Floor Plans

Mechanical: Provide heating, cooling and ventilation.

Electrical: Provide 120V duplex receptacles.

Lighting: Day lighting (other than double doors) is not allowed. Provide ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards and occupancy sensors.

Communications: Provide wall mounted telecommunication outlet with a mounting lug faceplate to accommodate a wall mounted phone.

FF&E: Heavy duty industrial open rack shelving 24" D and 30" D, minimum 20 lineal feet.

Finishes: Sealed concrete floors and epoxy painted CMU walls.

2B.5 SPECIAL USE AREAS, Cont'd.**2A.5.13 CRIMINAL INTELLIGENCE CENTER (CIC):**

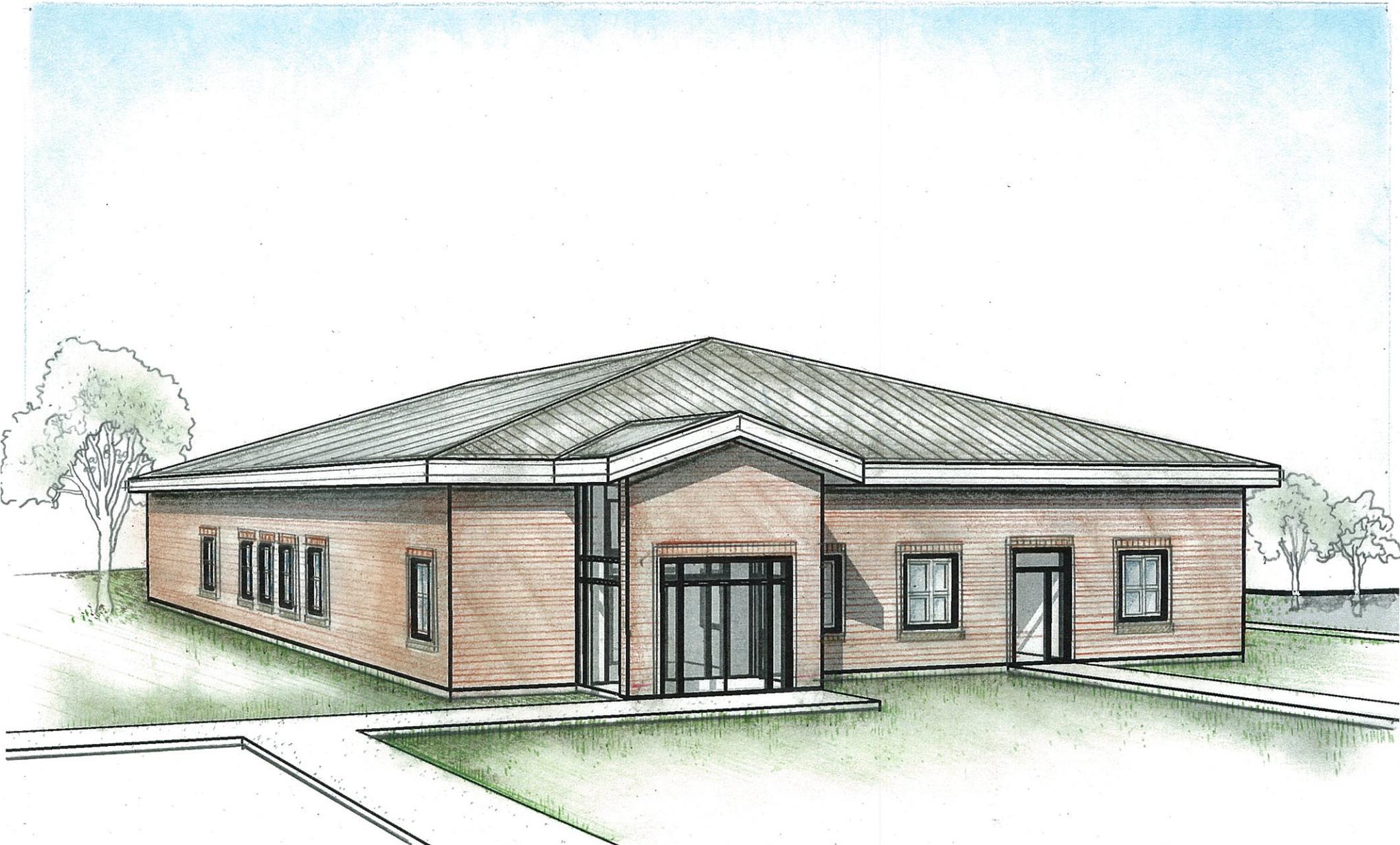
The Criminal Intelligence Center is a closed meeting room with SIPERNET connections. It shall have a conference table and small workstation for the SIPRNET equipment. The room can serve as an office and/or a 'war' room for emergency operations.

Adjacency Requirements:	Centrally located and adjacent to Resident Agent Staff
Space Requirement:	150 – 200 SF
Mechanical:	Provide heating, cooling and ventilation. Mechanical system shall be designed to accommodate partial to full occupancy with temperature control separate from other portions of the building.
Electrical:	Provide convenience power receptacles at perimeter of room. If table is in center of room, provide power and data in the floor.
Lighting:	Daylight is not desirable. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide telephone and data connections. Also provide SIPRNET Connections as per 'Technical Guide for the Integration of the Secret Internet Protocol Router Network'.
FF&E:	Provide wood conference table and conference room seating on castors to accommodate 4-6 or 6-8 persons. Include separate work station in corner for SIPRNET equipment
Accessories:	Provide coat hook on back of door and clock
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.
Other:	Construction shall meet requirements of Technical Guide for the Integration of the Secret Internet Protocol Router Network (SIPRNET) published by USAISEC Criteria.

Room Adjacency Matrix - Field Operations Building 10-15 RA

	Support Spaces	Lavatories	Shower	Janitor	Mech / Elec	TR Room	Administrative Spaces	Visitor Waiting	Admin- Operations	Multi-purpose Lounge	Interview Rooms	Special Use Areas	Suspect Waiting	Polygraph Office	Polygraph Exam	Observation Room	Suspect Toilet	Evidence Processing	Evidence Custodian	Evidence Depository	Duty Officer	Photo ID	Arms Vault	TOE Storage	RA CIC	Personnel	Special Agent in Charge	Criminal Investigator	Criminal Intelligence	Investigations Ops Tech	Drug Suppression Team	Special Agents	Remarks:		
Support Spaces																																			
Lavatories			1	2																														Directly adjacent to Visitor Waiting	
Shower		1		2																															
Janitor		1	2																																
Mech / Elec						1																		2											
TR Room					1																		2												
Administrative Spaces																																			
Visitor Waiting		2		3				1																											Directly adjacent to Vestibule @ front of Building
Admin- Operations		2	3				1			4																									
Multi-purpose Lounge		1	2				3			4																									
Interview Rooms		3	4				1	2	4																		3	3	3	3	3	3	3	1 Small Interview to be w/in Suspect Area	
Special Use Areas																																			
Suspect Waiting													1	1	1	1						2	2	3	4										
Polygraph Office													1	1	1	1						2	2	3	4										
Polygraph Exam													1	1		1	1					2	2	3	4										
Observation Room													1	1	1		1					2	2	3	4										
Suspect Toilet													1	1	1	1						2	2	3	4										
Evidence Processing																			2	3	1	3													
Evidence Custodian																			2		1	2	3												
Evidence Depository																			2	1															
Duty Officer													2	2	2	2	2	3			3	3	1	4	4										
Photo ID													2	2	2	2	2	3			3	3	1												
Arms Vault																		4		4	3			1											
TOE Storage					4																	3		1											
RA CIC						2																				1	1	1	1	1	1	1	1	1	
Personnel																																			
Special Agent In charge								3	2	4																		1	1	1	1	1	1	1	
Criminal Investigator																												1	1	1	1	1	1	1	
Criminal Intelligence																												1	1		1	1	1	1	
Investigations Ops Tech																												1	1	1		1	1	1	
Drug Suppression Team																												1	1	1	1	1	1	1	
Special Agents																												1	1	1	1	1	1	1	

1 Adjacent 2 On same corridor 3 Down the corridor 4 Same side/end of Bldg No Adjacency



P E R S P E C T I V E
USACE-CIDC RA 5-9 BUILDING /
USACE-CIDC RA 10-15 BUILDING

2C.1 FIELD OPERATIONS BUILDING, RA 24

2C.1.1 Program. The following list of Areas and/or Rooms should be programmed and planned into the CIDC Field Operations Building for 24 Resident Agents. See Chapter 3 for the 'Functional Space Descriptions and Performance Requirements' for each Area and/or Room.

2C.1.2 Support Areas

- Vestibule
- Women
- Men
- Showers (one in Women's Room and one in Men's Room)
- Janitor
- Mechanical
- Electric
- TR (Telecommunications Room) 2 Each
- Corridors

2C.1.3 Administrative Areas

- Visitor Waiting
- Administration-Operations
- Multi-Purpose Lounge
- Small Interview, 5 Each
- Large Interview, 1 Each
- Command Conference
- Secure Document Storage
- Storage and Supply Room

2C.1.4 Special Use Areas

- Suspect Waiting
- Polygraph Office
- Polygraph Exam
- Observation Rm.
- Suspect Toilet
- Evidence Processing
- Evidence Custodian
- Evidence Depository
- Duty Office

2C.1 FIELD OPERATIONS BUILDING, RA 24, Cont'd.

- Photo ID
- Arms Vault
- Table of Organization & Equipment (TOE)
- Criminal Intelligence Center (CIC) w/ SIPRNET

2C.1.5 Personnel

• Administration / Operations	1 Office / 2 Persons	E7 & E4 with 4 desks
• Special Agent in Charge (SAC)	<u>1 Office / 1 Person</u>	CW4 w/ SIPRNET
SUB TOTAL Personnel		3 Each
• Criminal Investigator	1 Office / 1 Person	GS13
• Criminal Intelligence	1 Office / 1 Person	CW3
• Investigative Ops Tech	<u>2 Office / 2 Person</u>	GS13
SUB TOTAL Personnel		4 Each
• Supervising Team	1 Office / 2 Persons	CW3 & E7
• SR Team	2 Offices / 4 Persons	CW2 & E6
• Special Agents	5 Offices/ 10 Persons	CW2 & E5
• Evidence Custodian	1 Office / 1 Person	E6
• Drug Suppression Team	1 Office / 1 Person	E6
• Drug suppression Team	<u>Open Area / 5 Persons</u>	Enlisted
SUB TOTAL Personnel		23 Each
TOTAL Personnel		30 Each

2C.1.6 Personnel Descriptions

- Administrations/Operations: Office Prototype OP6. Assists the operations NCO by performing all required administrative work for the detachment to include procuring supplies as needed. Also assists in performing database searches for name checks.
- Special Agent in Charge (SAC): Office Prototype OP3. The chief of a detachment is tasked with performing criminal investigations within a specific area of responsibility. Represents USACIDC to all personnel within the area of responsibility. Performs quality assurance reviews on investigations and coordinates complex investigations as required. If required, performs criminal investigations and performs protective service mission work.

2C.1 FIELD OPERATIONS BUILDING, RA 24, Cont'd.

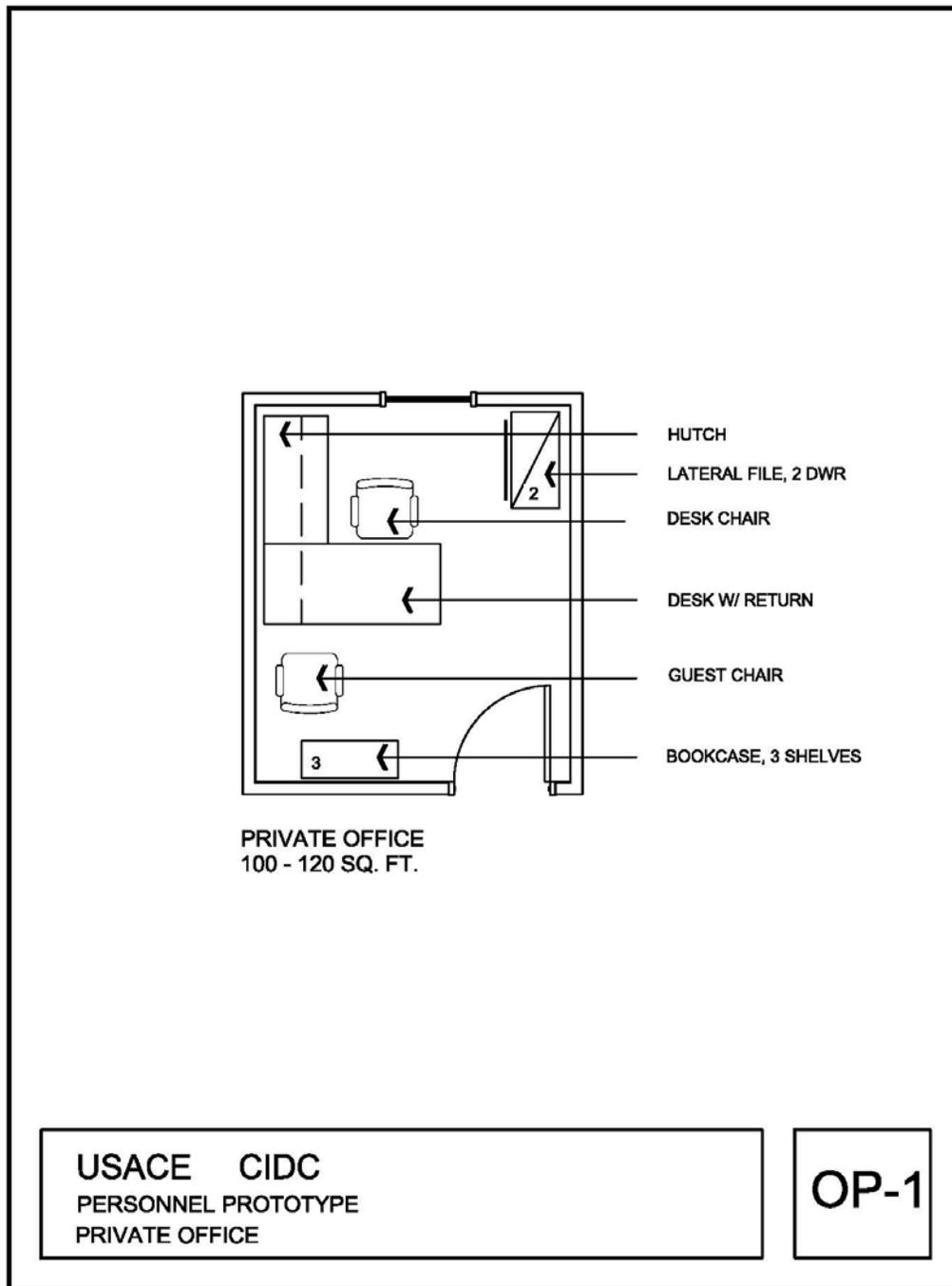
- Criminal Investigator (Crim Invest): Office Prototype OP2. They coordinate criminal investigations across the teams. Performs criminal investigations when required and also performs protective service mission work as required.
- Criminal Intelligence (Crim Intel): Office Prototype OP6. They procure and analyze available area of responsibility for criminal information for suspicious activities and trends that could adversely impact Army or DoD interests. Reviews and analyzes investigative cases for actionable or suspicious information. Liaises with and shares criminal intelligence with other law enforcement agencies within the detachment area of responsibility.
- Investigative Operations Technician (Invest Ops Tech): Office Prototype OP2: Performs all general investigative support required and performs work on investigative data base systems. Performs limited criminal intelligence work as required. In the absence of any administrative/operations support provides support as needed.
- Operations NCO: Office Prototype OP-6. Assists in coordinating operations and investigations for the detachment as required. May perform criminal investigations as required. Coordinates all administrative support for the detachment to include procuring all required supplies and coordinating housekeeping and maintenance of the detachment facility.
- Operations NCO, Team Chief: Office Prototype OP-2. Assists in coordinating operations and investigations for the detachment as required. May perform criminal investigations required. Coordinates all administrative support for the detachment to include procurement of supplies and coordinating housekeeping and maintenance of the detachment facility.
- Drug Suppression Team: Office Prototype OP4. Performs drug related criminal investigations. In coordination with state, local and national law enforcement performs drug suppression operations and stings.
- Special Agents: Office Prototype OP4 and OP6. These personnel are part of a team and perform criminal investigations and also perform protective service, such as the Secret Service, when required.

2C.2 PERSONNEL SPACE REQUIREMENTS

2C.2.1 Office Prototype OP-1– Small Office, Single Person Occupancy

Provide an enclosed space w/ door & lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

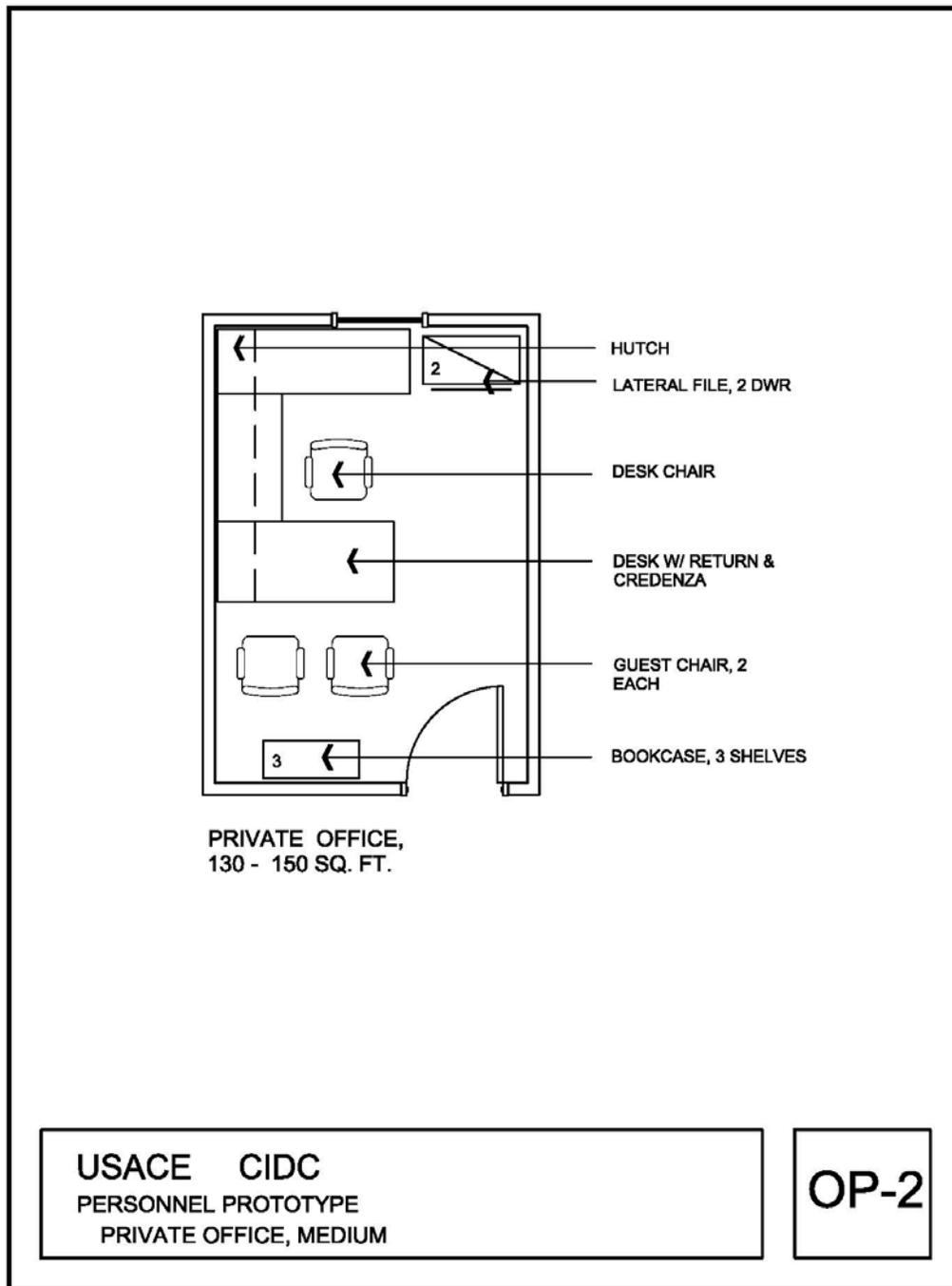
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 100 SF-120 SF.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and should be controlled when used. Each room shall have occupancy sensors
Communications:	Provide telephone and LAN connections.
FF&E:	Government furnished equipment includes metal furniture with plastic laminate tops: <ul style="list-style-type: none"> • Desk, single pedestal: 30" x 60" • Return 24" x 48" • Desk Chair: 1 Each • Guest Chair: 1 Each • Hutch (over return or over credenza as appropriate) • Lateral File Cabinet, 2 high 36" wide
Miscellaneous	Coat hook on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2C.2 PERSONNEL SPACE REQUIREMENTS, Cont'd.**2C.2.2 Office Prototype OP-2 , Medium Size Office – Single Person Occupancy**

Provide an enclosed space w/ door & lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

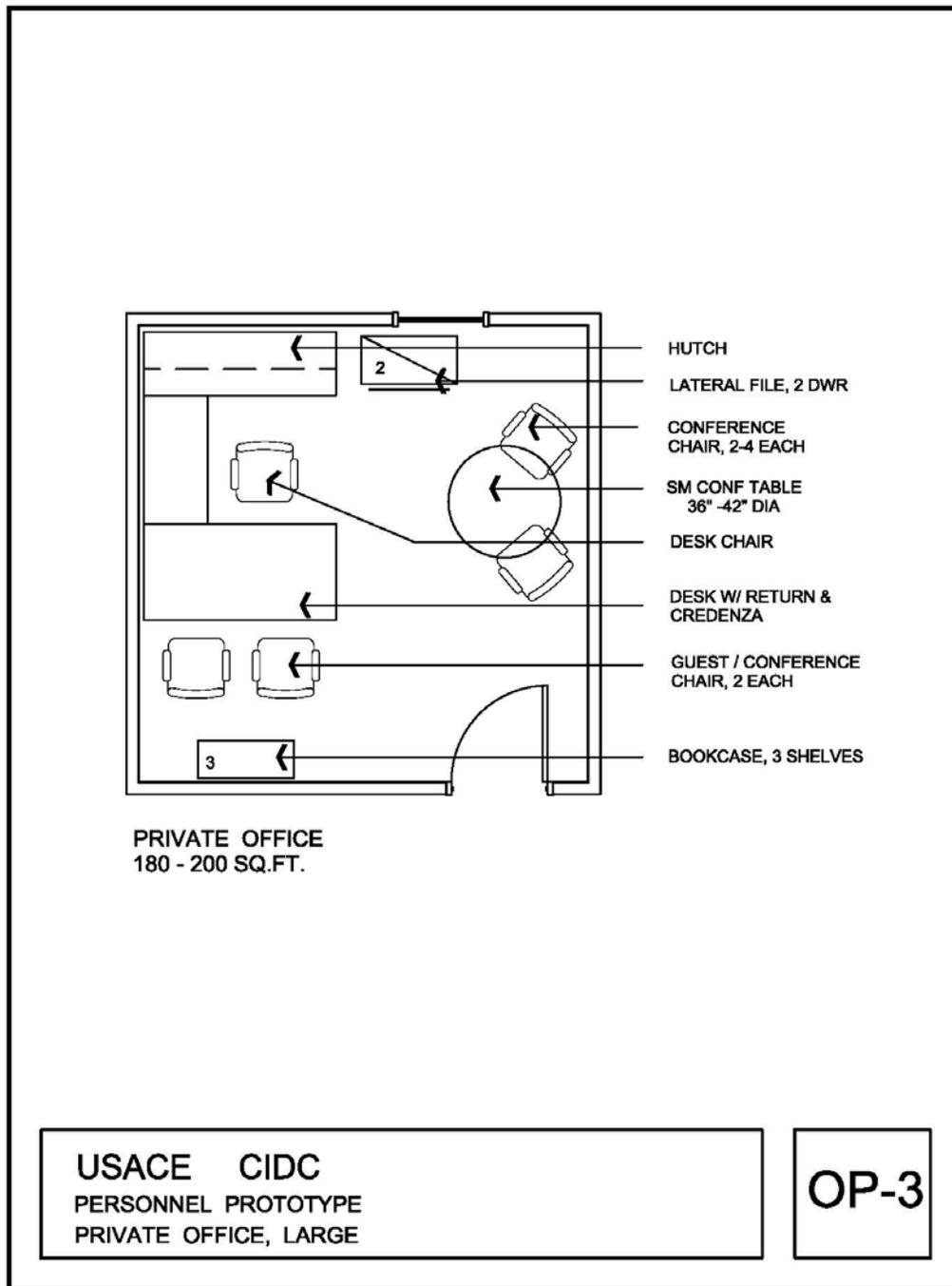
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 130 SF-150 SF.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide Four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and should be controlled when used. Each room shall have occupancy sensors
Communications:	Provide telephone and LAN connections.
FF&E:	Government furnished equipment includes wood casegoods <ul style="list-style-type: none"> • Desk, single pedestal: 30" x 60" or 36" x 72" • Return 24" x 42 or 24" x 48" • Credenza w/ 2 dwr file 24" x 60" or 24" x 72" • Desk Chair • Guest Chair (s) • Bookcase, 3 high • Lateral File Cabinet, 2 high
Miscellaneous	Coat hook on back of door.
Finishes:	Broadloom carpet, resilient base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2C.2 PERSONNEL SPACE REQUIREMENTS, Cont'd.**2C.2.3 Office Prototype OP-3, Large Size Office – Single Person Occupancy**

Provide an enclosed space w/ door & lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

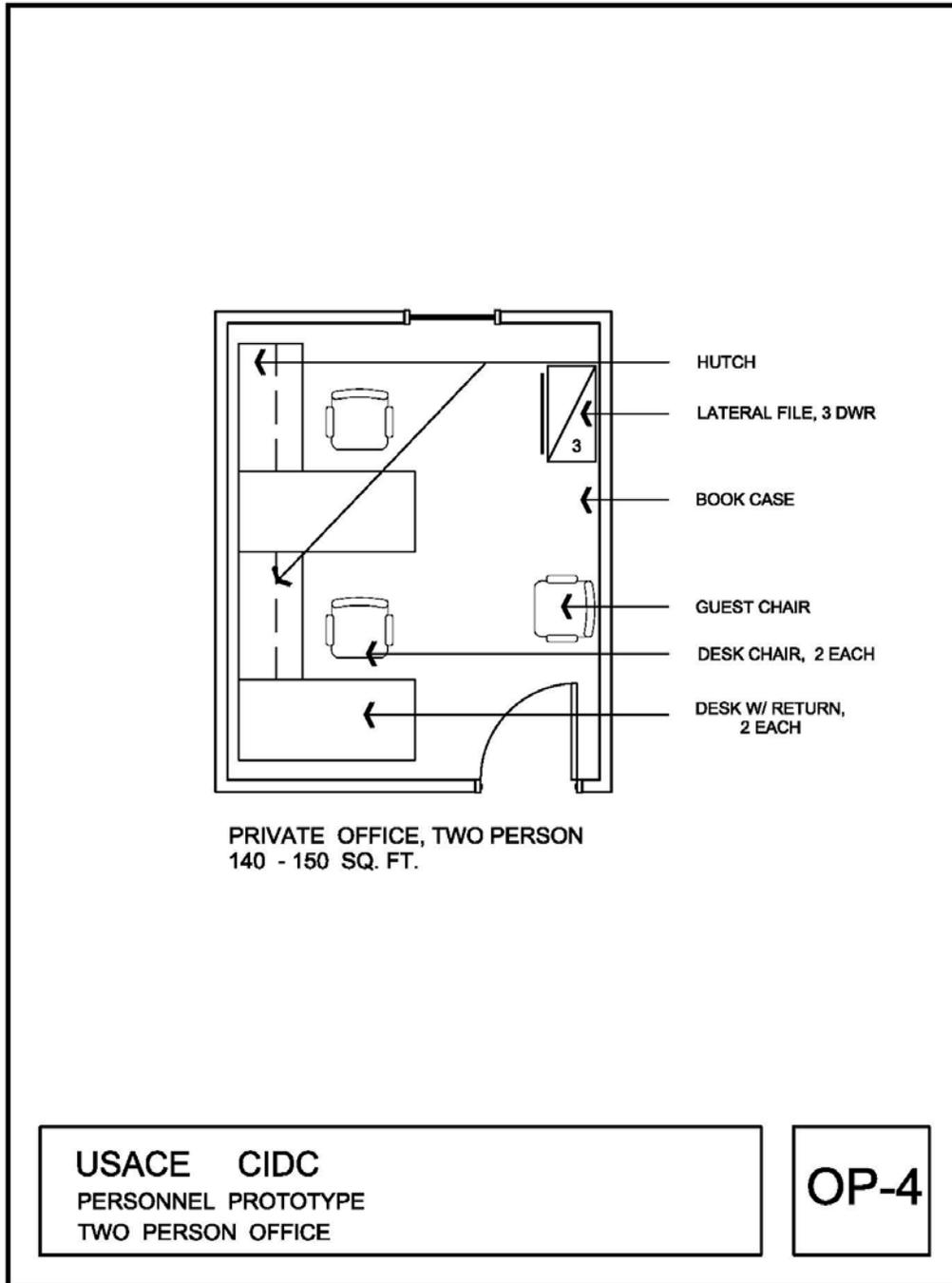
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 180 SF-200 SF.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and should be controlled when used. Each room shall have occupancy sensors
Communications:	Provide telephone and data connections. Provide a SIPRNET outlet in SAC Office and CIC Office
FF&E:	Government furnished equipment includes wood casegoods: <ul style="list-style-type: none"> • Desk, single pedestal: 36" x 72" • Return 24" x 48" • Credenza w/ 2 dwr file 24" x 72" • Hutch (to be used over return or credenza • Desk Chair • Guest Chair (2) • Conference Table 36" – 42" Diameter • Bookcase, 3 high • Lateral File Cabinet, 2 high
Miscellaneous	Coat hook on back of door.
Finishes:	Broadloom carpet, resilient base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2C.2 PERSONNEL SPACE REQUIREMENTS, Cont'd.**2C.2.4 Office Prototype OP-4 – Two Person Occupancy**

Provide an enclosed space w/ door and lock for double person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

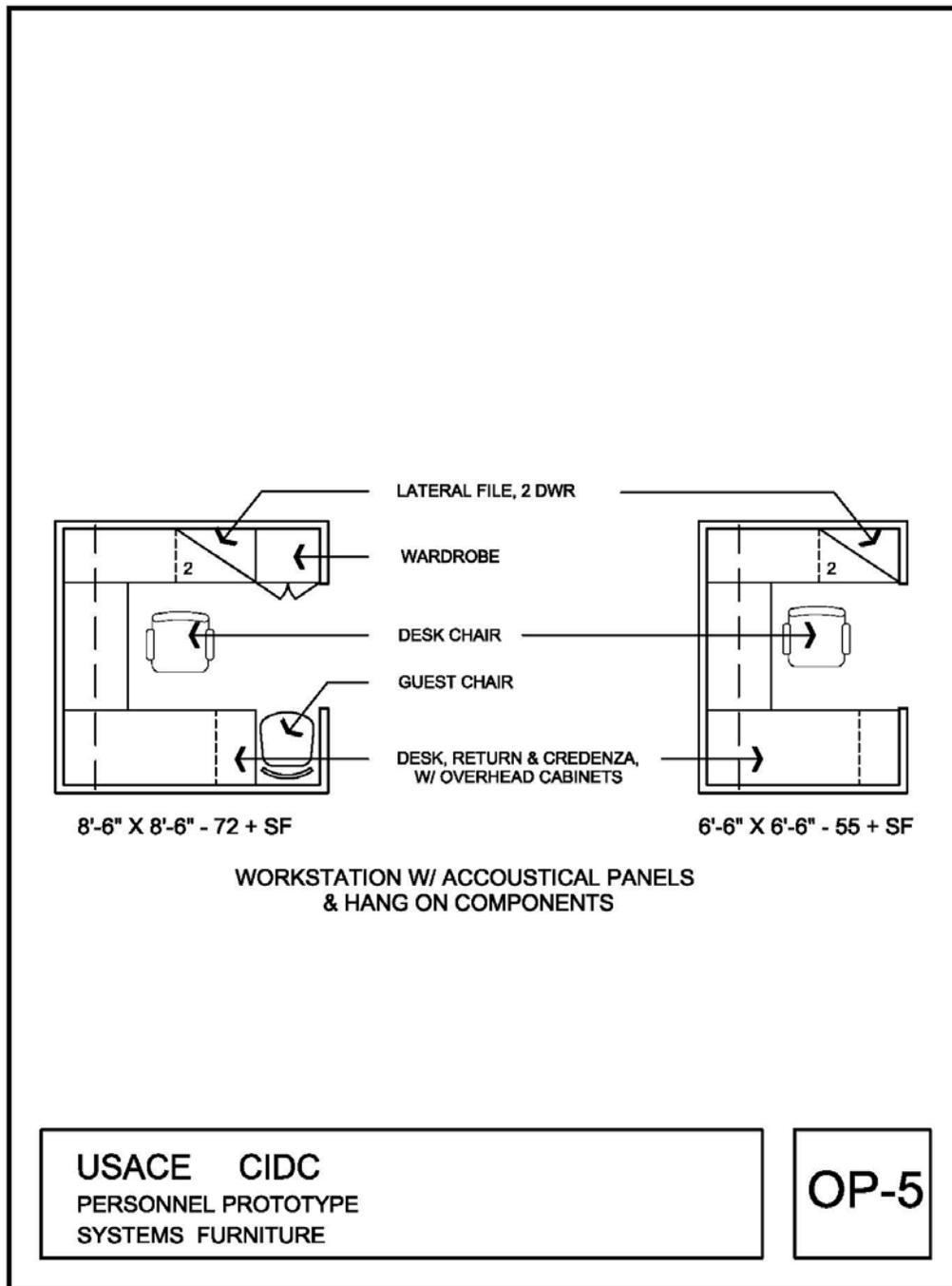
Function:	Office
Occupancy:	2
Space Requirement:	Varies from 140 SF-150 SF.
Mechanical:	Provide heating, cooling and ventilation
Electrical	Provide four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors.
Communications:	Provide telephone and data connections.
FF&E:	Government furnished equipment includes metal casegoods with wood grain plastic laminate tops: <ul style="list-style-type: none"> • Desk, single pedestal – (2 Each) 30" x 60" • Return – (2 Each) 24" x 42" • Hutch (to be used over return) • Desk Chair- (2 Each) • Guest Chair (1-2 Each) • Lateral File Cabinet, 3 shelves, 36" wide • Bookcase, 3 drawer 36" wide
Miscellaneous	Coat hooks on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2C.2 PERSONNEL SPACE REQUIREMENTS, Cont'd**2C.2.5 Office Prototype OP-5, Systems Furniture Work Station – Single Person Occupancy**

Provide a Work Station with acoustical panels and hang on components for single person occupancy. The size is to comply with personnel rank/grade and/or function.

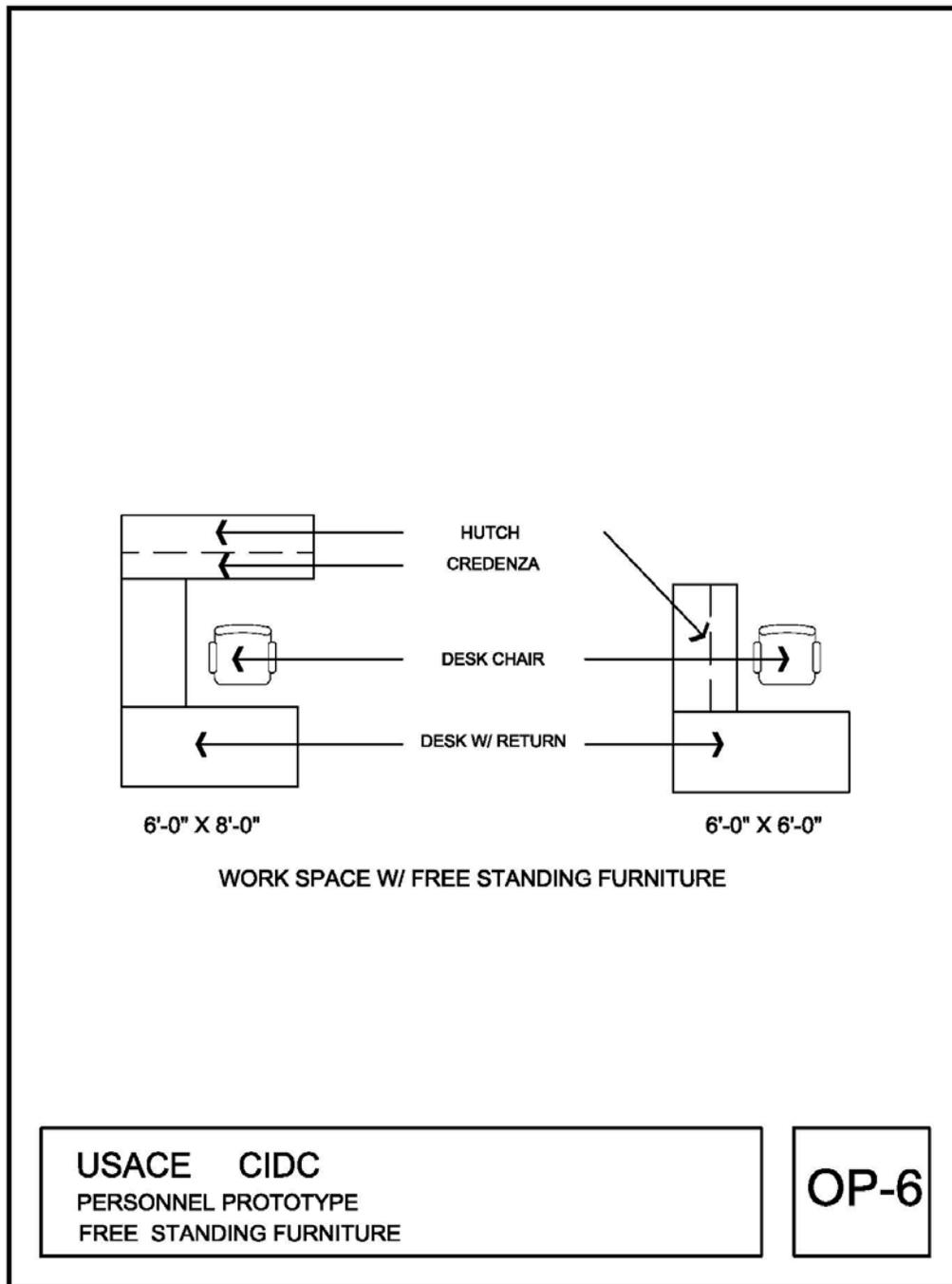
Function:	Work Station
Occupancy:	1
Space Requirement:	Varies from 48 SF-64 SF.
Mechanical:	NA
Electrical	Provide two (2) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and should be controlled when used. Each room shall have occupancy sensors
Communications:	Refer to the "Technical Criteria for the Installation Information Infrastructure Architecture (I3A)" February 2010 for communication requirements.
FF&E:	Government furnished equipment includes metal furniture with wood grain plastic laminate tops: <ul style="list-style-type: none"> • Desk, single pedestal: 30" x 60" • Return 24" x 42 or 24" x 48" • Credenza w/ lateral file, 2 High • Desk Chair: 1 Each • Guest Chair: 1 Each • Overhead cabinets • Wardrobe
Miscellaneous	Coat hook/rod in wardrobe.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2C.2 PERSONNEL SPACE REQUIREMENTS, Cont'd.**2C.2.6 Office Prototype OP-6, Work Space with Free Standing Furniture - Single Person Occupancy**

Provide a Work Space with free standing furniture for Single Person occupancy. The size is to comply with personnel rank/grade and/or function.

Function:	Work Space with free standing furniture.
Occupancy:	1
Space Requirement:	Varies from 48 SF-64 SF
Mechanical:	NA
Electrical	Provide two (4) 120V duplex power receptacles
Lighting:	Day lighting is desirable, and should be controlled when used. Each room shall have occupancy sensors
Communications:	Refer to the "Technical Criteria for the Installation Information Infrastructure Architecture (I3A)" February 2010.
FF&E:	Government furnished equipment includes metal furniture with wood grained plastic laminate tops. <ul style="list-style-type: none"> • Desk w/ Pedestal 30" x 60" • Return 24" x 48" • Credenza: Optional 24" x 60" • Desk Chair • Overhead cabinets or Bookcases • Lateral File, 2 high
Miscellaneous	Coat hook on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2C.3 SUPPORT AREAS

2C.3.1 Vestibule:

Vestibule is accessed from exterior and serves as a transition to the conditioned space of the building into the main lobby. The vestibule shall accommodate the maximum number of people determined by the occupancy load.

Function: Entry into Visitor Waiting

Adjacency Requirements: Exterior, Visitor Waiting, Corridors

Space Requirement: Minimum 150 SF

Mechanical: Space shall provide heating, cooling and ventilation.

Electrical: Provide 120V duplex power receptacles for maintenance.

Communications: Provide intercom connections with paging speakers.

Finishes: Quarry or porcelain tile and base with recessed walk off mat and GWB or plaster ceiling painted ceilings. Vestibule shall have glass windows and or GWB painted walls.

2C.3 SUPPORT AREAS, Cont'd

2C.3.2 Women:	Provide female toilet room with minimum number of fixtures. Include accessible fixtures as required by code. Arrange the entrance to provide visual privacy. This room will be used by visitors and staff. Doors shall be designed with separate entries for visitors and staff.
Occupancy:	As required per code
Adjacency Req'd:	Visitor Waiting area and Men's Room
Space Requirement:	See Floor Plans
Plumbing:	Efficiently locate fixtures. Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain outside of traffic areas. Provide countertop with integral mounted lavatories. Provide wall hung toilets and urinals Lavatories and toilets shall have automatic valves. Installation shall determine if the valves are battery or hardwired.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide one (1) 120V GFI-duplex power receptacles at each sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power.
Lighting	Provide GWB ceiling with fluorescent fixtures.
Communications:	NA.
Equip and Accessories:	Countertop shall be solid surface material with integrated bowls. Provide solid polymer overhead-braced type toilet partitions at each toilet. Provide the following toilet accessories; one continuous mirror full width of countertop at lavatory; full length mirror, paper towel dispenser/waste receptacle; soap dispensers for each lavatory, one toilet tissue dispenser per toilet; one robe hook on each toilet partition door; one sanitary napkin/tampon vending machine. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile 4'-0" AFF and GWB or plaster painted ceilings.

2C.3 SUPPORT AREAS, Cont'd.

2C.3.4 Men:	Provide male toilet room with minimum number of fixtures. Include accessible fixtures as required by code. Arrange the entrance to provide visual privacy. This room will be used by visitors and staff. Doors shall be designed with separate entries for visitors and staff.
Occupancy:	As required by code
Adjacency Req:	Visitor Waiting area and Women's Room
Space Requirement:	See Floor Plans
Plumbing:	Efficiently locate fixtures. Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain outside of traffic areas. Provide countertop with integral mounted lavatories. Provide wall hung toilets and urinals Lavatories and toilets shall have automatic valves. Installation shall determine if the valves are battery or hardwired.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide one (1) 120V GFI-duplex power receptacle at sink. Provide one (1) 120V GFI-duplex power receptacle at floor level for convenience power.
Lighting:	Provide GWB ceiling with fluorescent fixtures.
Communications:	NA
Equip and Accessories:	Countertop shall be solid surface material with integrated bowls. Provide solid polymer overhead-braced type toilet partitions at each toilet. Provide the following toilet accessories; one continuous mirror full width of countertop at lavatory; full length mirror, paper towel dispenser/waste receptacle; soap dispensers for each lavatory, one toilet tissue dispenser per toilet and one robe hook on each toilet partition door. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile 4'-0" AFF and GWB or plaster painted ceilings.

2C.3 SUPPORT AREAS, Cont'd.

2C.3.5 Shower Room:	Provide accessible shower area in the Men's toilet and in the Women's toilet.
Adjacency Required:	Adjacent to other areas with plumbing (i.e., Men's & Women's Rooms, Janitor's closet, Staff Break Area)
Space Requirement:	See Floor Plans
Plumbing:	Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain in Shower Area. Efficiently locate fixtures. Toilets and lavatory shall have automatic valves. Installation shall determine if the valves are battery or hardwired. Do not use prefabricated shower stall.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical	Provide one (1) 120V GFI-duplex power receptacle at counter top height at the sink. Provide one (1) 120V GFI-duplex power receptacle at floor level for convenience power
Lighting:	Provide GWB ceiling with fluorescent fixtures with prismatic lenses. Provide occupancy sensors.
Communications:	NA
FF&E:	Provide five times the quantity of lockers as toilet/urinal fixtures. Provide half size lockers (stack two high). The lockers shall be solid polymer, have two tiers and mounted above raised concrete platform base. Provide one mirror above lavatory/vanity, one full length mirror, one paper towel dispenser/waste receptacle per two sinks; one soap dispenser per sink; one robe hook per stall. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile to ceiling in shower locations and wet walls and GWB or plaster painted ceilings.

2C.3 SUPPORT AREAS, Cont'd.

2C.3.6 Janitor:	Provide one Janitor closet for building maintenance.
Function:	Janitors Closet is to store cleaning and maintenance housekeeping supplies and equipment.
Adjacency:	Men's and Women's Room
Space Requirement:	Minimum 48 SF
Plumbing:	Provide floor mounted mop sink and floor drain. Faucet shall be designed to support a bucket and have a threaded end to receive a hose.
Mechanical:	Space shall be ventilated
Electrical	Provide GFI-protected convenience receptacle adjacent to the shelving.
Lighting:	Provide wall mounted or ceiling hung industrial linear fluorescent lights.
Communications:	NA
Equipment:	Provide a wall mounted metal strip to hang mops locate near floor mounted mop sink. Include one each 3'-0" wide open industrial type metal shelving to store cleaning supplies.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system

2C.3 SUPPORT AREAS, Cont'd.

2C.3.7 Mechanical:	Provide a dedicated interior space for plumbing, fire protection, and HVAC equipment with access from the exterior. Size and locate rooms (including doorways) to allow equipment removal and maintenance. Provide floor openings and vertical openings as necessary.
Function:	Space for mechanical systems to service the building.
Adjacency Requirements:	Locate main mechanical room on ground floor with double doors opening to the exterior. Mechanical room shall not be used for storage or other purposes; access shall be limited to authorized personnel. Locate exterior mechanical equipment and air intake and openings in exterior walls to comply with force protection standards.
Space Requirement:	This area is part of the gross area factor calculation. The area is to be equal to or greater than 5% of the gross building area for planning purposes. Actual required area shall be determined during programming based upon geographical location.
Plumbing:	Provide floor drain, faucet and other plumbing as required for functions of space.
Mechanical:	Provide heating, cooling, ventilation and exhaust as required.
Electrical	Provide convenience power receptacles as well as required service for equipment.
Lighting:	Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.
Communications:	Provide telephone service for energy management system and a wall mounted telephone outlet general use.
Equipment:	As required.
Finishes:	Sealed concrete floor, painted GWB walls with exposed structure ceiling.

2C.3 SUPPORT AREAS, Cont'd.

Other requirements: Locate air intake and exhaust openings to provide optimum indoor air quality. Locate air intakes to comply with AT/FP requirements.

Fire Pump Room: An area has been identified (see dashed line on floor plan) for the location of a Fire Pump Room is required.

2C.3.8 Electrical: Provide dedicated interior space with exterior access for electrical equipment. Size and locate room (including doorways) to allow equipment removal and maintenance.

Function: Electrical support space for the building

Adjacency Requirements: Access from exterior, and interior corridor and adjacent to the Mechanical Room.

Space Requirement: The area is part of the gross area factor calculation. Total area is to be equal to or greater than 5% of the gross building area for planning purposes. Actual required area shall be determined during programming based upon geographical location.

Mechanical: Space shall be ventilated.

Plumbing: Do not run plumbing over electrical panels.

Electrical: Provide the required electrical distribution system including panel boards, transformers, and any other equipment required by code.

Lighting: Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.

Communications: Provide telephone service for fire alarm and security systems. Where transmitters and antennas are used by the installation, provide compatible equipment. Provide a wall-mounted telephone outlet for general communications.

Equipment: As required.

Finishes: Sealed concrete floor, painted GWB walls with exposed structural ceiling.

2C.3 SUPPORT AREAS, Cont'd.

Other Requirements: Electrical service to the building shall be underground. Provide masonry screen walls with lockable metal access gates around outdoor equipment. It is preferable to locate transformer within the screened mechanical equipment. Comply with AT/FP standards.

2C.3.9 Telecommunication Room: (TR): A Communications room is required to manage building connection to telephone, fiber optic, cable television, and other infrastructure. The room shall serve as a primary means of distributing information/communications through the facility to desktops.

Function: Communications service to the building

Adjacency Requirements: Mechanical Room and Electrical Room

Space Requirement: The area is part of the gross area factor calculation.

Plumbing: Not Applicable

Mechanical: Provide adequate cooling for respective equipment in an independently climate controlled room. This equipment shall provide year-round ambient temperature control to protect all installed electronic equipment.

Electrical; Provide electrical support as required

Lighting: Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.

Communications: Provide telephone and data connections

Equipment: GFGI distribution hardware, switches, servers, etc. Provide backboards and racks.

Finishes: Sealed concrete floor, painted GWB walls with exposed structural ceiling.

Other requirements: Route communications service to building's Entrance Facility (EF) via underground 4" conduits.

2C.3 SUPPORT AREAS, Cont'd.

2C.3.10 Corridors:	Provide as required for circulation. Minimum corridor width shall be as required by applicable codes, but not less than 5' -0" wide for administrative areas.
Function:	Circulation and egress; movement of equipment and personnel throughout the building. Provide insulated hollow metal doors and frames for exterior service areas.
Adjacency Requirements:	Exterior entrances and offices
Space Requirement:	The total net area as required by the design. The net area of corridors is part of the gross area factor calculation for the project.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical	Provide 120V duplex receptacles for convenience.
Lighting:	Day lighting is not required, and shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide public address system in corridors and throughout public areas.
FF&E:	Provide room signage at doors to each room.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system,
Other Requirements:	Coordinate user requirements for access control of exterior doors. Where equipment on carts or dollies is regularly moved through corridors, provide wall and corner guard protection.

2C.4 ADMINISTRATIVE AREAS

2C.4.1 Visitor Waiting:	This area shall be used by visitors to the facility. The visitors are usually witnesses. This area shall be available 24/7 for use by visitors. Provide access to Men's and Women's Toilet but without access to other parts of the building
Occupancy	Seating for 4 guests.
Adjacency Requirements:	Vestibule entry, Administrative Operations.
Space Requirement:	Provide a minimum area of 150 SF or more as may be required for different size facilities.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide 120V duplex receptacles.
Lighting:	Provide recessed fluorescent light fixtures.
Communications:	Provide wall mounted telephone.
FF&E:	Provide lounge seating for two and one side table.
Finishes:	Carpet, rubber base, painted GWB walls, or vinyl wallcovering and suspended acoustic ceiling grid/tile system,
Other Requirements:	Provide a bullet proof communication /transaction window and counter/ledge into Administration – Operations Office.

2C.4 ADMINISTRATIVE AREA, Cont'd.

2C.4.2 Administration - Operations: One large room with open office space for three - four (3-4) administrative staff. Office shall be located adjacent to Visitor Waiting, and shall maintain visual control of the front door. This space is where all administrative support functions are coordinated for the operation of the facility to include procuring all required supplies and coordinating housekeeping and maintenance of file storage, safe storage and reception.

Provide a bullet proof communication/transaction window and counter/ledge into Visitor Waiting Room. The partition (above, below and surrounding) at the transaction window shall also be bullet proof for the protection of Administrative-Operations personnel.

Occupancy:	1-2 full time and 2-4 part time
Adjacency Requirements:	Visitor Waiting
Space Requirement:	See Floor Plans
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is desirable but shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide telephone and data connections.
FF&E:	Furniture can be freestanding or system furniture panels and components (OP-5 or OP-6). Provide three each 3-drawer lateral file cabinets (36" wide) and 1 each 5-drawer high safe per desk at a minimum. Final storage requirements are to be determined by each facility.
Accessories	Provide one coat hook per person on back of door or on systems furniture panels. Provide one clock.
Casework and Millwork:	Provide a 60" L, 24" D and 1.5" thick solid polymer work surface with backsplash and lower closed cabinets with adjustable shelves. Provide a minimum of 3 each quadraplex power outlets and 3 each LAN outlets above worksurface for a printer, copier, fax and any other site specific equipment.

2C.4 ADMINISTRATIVE AREAS, Cont'd

Finishes: Carpet, rubber base, painted GWB walls and suspended acoustical ceiling tile/grid system.

2C.4.3 Multi-Purpose Lounge: This area is for multiple functions. It serves as a kitchen / break area with accommodations for a classroom / training configuration. Provide casework, upper and lower cabinets to accommodate the fixtures described under 'plumbing'. Provide an area and containers for recycling and at least two vending machines. The furniture shall be arranged to accommodate the respective functions.

Occupancy: Provide one chair at table for each agent.

Adjacency Requirements: Centrally located for maximum convenience to all staff

Space Requirement: Varies on size of building and quantity of occupants. The kitchen/vending area shall require 150-200 SF. Should a classroom/meeting room function be required, estimate an additional 200-250 SF. See Appendix, Floor Plans.

Mechanical: Space shall provide heating, cooling and ventilation. Heat load calculations shall consider the quantity of users and the additional demands for stove top, oven and vending machines.

Plumbing: Plumbing connections for a refrigerator ice maker and coffee maker. Provide stainless steel double bowl sink with disposal, faucets and instantaneous hot water dispenser. Water could be required for vending machines which require cooling/refrigeration.

Electrical: Provide convenience and counter height GFCI receptacles. Provide electrical connections for kitchen and training room equipment.

Lighting: Day lighting is acceptable but not required and shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.

2C.4 ADMINISTRATIVE AREAS, Cont'd.

Communications:	Space shall have wall mounted telephone. Provide conduit for Cable TV and data for wall mounted flat screen TV. Provide conduit from wall outlet (for computer connection) to wall mounted flat screen TV.
FF&E:	<p>Provide 1 chair at table for each agent. Provide 1 table for every 6 agents and lounge seating (combination of sofas and lounge chairs with end table) appropriate for each facility.</p> <p>Provide microwaves (1 each), refrigerators w/ icemakers (1 each), dishwasher (1 each), stove top and oven (1 each) and vending machines (2 each-1 for food and 1 for drinks).</p> <p>Provide clock, wall mounted flat screen TV and 6 feet wide marker board / tackable board.</p>
Casework and Millwork:	Provide a minimum of 12'-0" L, 24" D solid polymer counter top with kitchen sink, base cabinets with adjustable shelves and upper cabinets with adjustable shelves.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling tile/grid system.
Other:	Provide an area and appropriate containers for recycling.

2C.4 ADMINISTRATIVE AREAS, Cont'd**2C.4.2 Command Conference Rm:** Closed Conference area for large meetings.

Occupancy:	12-14, 16-18
Adjacency Requirements:	Commander/Special Agent in Charge
Space Requirement:	360 – 400 SF
Mechanical:	Space shall provide heating, cooling and ventilation
Electrical:	Provide convenience power receptacles at perimeter of room. Provide power on wall for flat screen TV and provide power in floor under table.
Lighting:	Day lighting is desirable but not required, and should be controlled when used. Provide recessed fluorescent direct/indirect fixtures and compact fluorescent down lights controlled by dimmers.
Communications:	Provide telephone and data connections at same locations as power (on wall and floor). Space shall have cable and. Flush data and power receptacles shall be located below probable table locations to avoid exposed wiring during meetings.
FF&E:	Provide wood conference table 14' long with conference type seating with castors for 12-14 persons or 16' long with conference type seating with castors for 16-18 persons as appropriate for the building. Include credenza/buffet and/or AV cart for audio visual equipment.
Accessories:	Provide Coat hook on back of door, clock and flat screen TV.
Casework & Millwork:	Provide stain grade wood chair rail at required height to protect wall from chairs.
Finishes:	Carpet with borders and stained wood base, painted GWB walls and suspended acoustic ceiling grid/tile system

2C.4 ADMINISTRATIVE AREAS, Cont'd.

2C.4.3 Secured Storage:	The Secured Storage shall have lockable file cabinets and safes.
Occupancy:	none
Adjacency Requirements:	Centrally located for maximum convenience to all staff.
Space Requirement:	See floor plans.
Mechanical:	Space shall provide heating, cooling and ventilation
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed. Provide recessed fluorescent light fixtures with occupancy sensors
Communications:	Provide 8-pin modular (RJ45 Type) connector in a single gang outlet faceplate with mounting lugs to accommodate a wall phone.
FF&E:	Provide lateral file cabinets 5 drawer high and 5 drawer high safes
Finishes:	Resilient floor and rubber base, painted GWB wall & suspended acoustic ceiling grid/tile system.
Other Construction:	Provide secured perimeter and hardware devices as required for 'Secured Storage'.

2C.4 ADMINISTRATIVE AREAS, Cont'd.

2C.4.4 Storage / Supply Room	Storage is required for furniture, equipment, computers, and filing of paper, folders, binders and other types of documents not identified as 'secured storage'.
Function:	Storage Space
Occupancy:	None
Adjacency Requirements:	Centrally located for maximum convenience to all staff.
Space Requirement:	Total net area equal to 2% of the gross building area subtotal.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed. Provide recessed fluorescent light fixtures.
Communications:	Not applicable.
FF&E:	Provide lateral file cabinets 5 drawer high and industrial type shelving (18" D and 24" D)
Finishes:	Resilient floor, rubber base, painted GWB wall & suspended acoustic ceiling grid/tile system.

2C.4 ADMINISTRATIVE AREAS, Cont'd.

2C.4.4 Small Interview:	The Small Interview Room is to interview suspects. These rooms are located within the secured perimeter of suspect area. This is a closed room where one agent and one suspect will sit across one another in an interview. The room shall have vandal proof wall or ceiling mounted audio/video equipment. The furniture shall be heavy duty so as not to be easily thrown around or broken if violent episodes occur. The suspect may even be handcuffed to the chair.
Occupancy:	2
Adjacency Requirements:	At least two small Interview Rooms shall be provided. These rooms shall be located within the 'suspect secured area/corridor' and adjacent to Polygraph suite. The Interview Rooms shall be adjacent to each other if possible.
Space Requirement:	Approximately 150 SF
Mechanical:	Space shall provide heating, cooling and ventilation
Electrical:	Provide 120V duplex receptacles
Lighting:	Day lighting is not required, and shall be controlled when used. Provide recessed fluorescent light fixtures. Do not provide occupancy sensors.
Communications:	Provide telephone and data connections
FF&E:	Provide 2 solid wood chairs with legs and one metal desk (60" x 30") with plastic laminate top. The room shall have vandal proof wall or ceiling mounted audio/video equipment.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustic ceiling tile/grid system.

2C.4 ADMINISTRATIVE AREAS, Cont'd.**2C.4.5 Large Interview:**

This room needs to be a secure area for suspects waiting until the next stage of the process. Applied finishes are not to be used as suspect could hide something under floor finish or behind the base. Space should be easy to clean. Lighting should not be controlled from inside room as suspects should not be able to turn lights off inside the room. No occupancy sensors in this room. Lighting should not be too bright, as it may affect the one way mirror-window from the Observation Room. Design should be intended to protect CIDC personnel while containing suspects.

The furniture should be heavy duty so as not to be easily thrown around or broken if violent episodes occur. The suspect may even be handcuffed to the chair.

Occupancy:	8
Adjacency Requirements:	Visitor waiting
Space Requirement:	180 – 250 SF
Mechanical:	Provide heating, cooling and ventilation
Electrical;	Provide 120V duplex receptacles
Lighting:	Day lighting is not required but should be controlled when used. Provide recessed fluorescent light fixtures. Do not provide occupancy sensors.
Communications:	Provide telephone and data connections.
FF&E:	Provide wood conference table (42" x 84"), 8 chairs on castors and a credenza/buffet. Provide wall mounted camera and microphone to record interviews.
Accessories:	Coat hooks on back of door and clock
Finishes:	Broadloom carpet, resilient base, painted GWB walls and suspended acoustic ceiling grid/tile system.

2C.5 SPECIAL USE AREAS

2C.5.1 Suspect Waiting:

This room is to be a secure area for suspects to wait during the interrogation process. Space shall be easy to clean. Lighting shall not be controlled from inside room as suspects should not be able to turn lights off inside the room. No occupancy sensors in this room. Lighting shall accommodate function of the one way mirror-window from the Observation Room. Design shall be intended to protect CIDC personnel while containing suspects. The furniture shall be heavy duty so as not to be easily thrown around or broken if violent episodes occur. The suspect may even be handcuffed to the chair.

Occupancy:	3-4
Adjacency Requirements:	Near Poly Office; Observation Room and Suspect Toilet. Room shall be in secured perimeter of the 'suspect area'.
Space Requirement:	Minimum 100 SF.
Mechanical:	Provide heating, cooling and ventilation
Electrical:	Provide 120V tamper-resistant duplex receptacles.
Lighting:	Day lighting is not allowed. Provide tamper proof recessed fluorescent fixtures. Do not provide occupancy sensors. Light switch shall be outside room.
Communications:	Do not provide telephone or data.
FF&E:	Provide 3-4 each heavy duty wood seating without upholstery and one end table.
Finishes:	No floor and base material, painted impact resistant GWB walls and ceiling.
Other Requirements:	Provide one way mirror-window from Observation Room into Suspect waiting. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6. Provide heavy duty metal door/frame with window and special security hardware accessible only from outside the room. It is possible that no hardware at all will be used on the interior side of the door.

2C.5 SPECIAL USE AREAS, Cont'd.

2C.5.2 Suspect Toilet: Provide single occupancy, accessible unisex toilet room. Arrange the entrance to provide clear vision from Suspect Waiting. This toilet shall only to be used by suspects. Floors shall be sealed concrete. No occupancy sensors in this area. Lighting shall be controlled from outside the Suspect Waiting Room.

Adjacency Required: Adjacent to Suspect Waiting

Space Requirement: As required by code

Plumbing: Efficiently locate toilet. Lavatories shall be vandal proof and have automatic valves. Installation shall determine if the valves are battery or hardwired. Provide a tamperproof floor drain with deep seal trap, located in center of room.

Mechanical: Space shall provide heating, cooling and ventilation.

Electrical: Provide a 120V GFI duplex receptacle for general maintenance purpose.

Lighting: Day lighting is not allowed. Provide vandal proof recessed fluorescent light fixtures. Do not provide occupancy sensors.

Communications: Do not provide telephone or data.

FF&E: Provide wall hung, stainless steel lavatory, and wall hung stainless steel toilet with non breakable mirror. Include full paper towel dispenser/waste receptacle; one soap dispenser and one toilet tissue dispenser. Toilet accessories shall be fabricated from stainless steel, provide semi recessed units where possible

Finishes: Sealed Concrete floor, ceramic wall tile to ceiling and impact resistant GWB walls and ceilings or plaster painted ceilings.

Other Requirements: Special construction is required for sound attenuation at the perimeter of the Polygraph 'Suite'. Comply with Department of Army Polygraph activities Regulation AR195-6. Provide heavy duty metal door/frame with window with no hardware on either side of the door.

2C.5 SPECIAL USE AREAS, Cont'd.

2C.5.3 Polygraph Office:	This office is part of the Polygraph suite which also includes the Polygraph Room and Observation Room. This is an office where the polygraph officer manages the documents and other materials for polygraph exam. The office provides space for one polygraph person to monitor suspect's entry, waiting, exam and storage of materials which are necessary to operate the equipment. Operation is 24/7.
Occupancy:	2
Adjacency Requirements:	Poly Exam and entry into entry into Polygraph area. Room shall be in secured suspect area.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling and ventilation
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed, provide recessed fluorescent lighting fixtures.
Communications:	Provide telephone and data connections
FF&E:	Provide one desk with return (w/ lockable pedestals) and one desk chair (no castors).
Finishes:	Broadloom Carpet, resilient base, painted GWB walls and suspended acoustic ceiling grid/tile system
Other Requirements:	Special construction is required for sound attenuation, the partitions around the office may require acoustical wall materials if necessary to meet the requirements in Department of Army Polygraph activities Regulation AR 195-6.

2C.5 SPECIAL USE AREAS, Cont'd.

2C.5.4 Polygraph Exam:	Provide room for conducting polygraph exams to suspects and/or witnesses. There will be one examiner and one person taking the exam. Complete silence is required to perform a polygraph exam. The construction of the perimeter of the room, floor and ceiling must provide maximum acoustical benefit. Chairs shall not squeak or move around on casters. Any noise can distract the person taking the exam and the slightest movement can cause adverse effects on the integrity of the results. Lighting shall be designed to accommodate function of one way mirror from Observation Room. Operation is 24/7.
Occupancy:	2
Adjacency Requirements:	Exam room must be located away from distracting noises such as street and office traffic, telephone or latrines. Access is to be through Poly Office and adjacent to Observation Room. Polygraph Exam Room shall be in the secured suspect area.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling and ventilation and accommodate special requirements sound attenuation for polygraph functions
Electrical	Provide 120V duplex receptacles
Lighting:	Day lighting is not allowed. Provide indirect recessed fluorescent lighting fixtures. A person taking the exam shall not be disturbed by looking up into direct lighting. Do not provide occupancy sensors. Lighting shall be designed to accommodate function of one way mirror
Communications:	Do not provide telephone or data.
FF&E:	Provide seating for two(solid wood chairs with legs and one desk or table (30" x 60"), metal with plastic laminate top. Chairs must not have upholstery or castors to eliminate possibility of sound. The room shall have vandal proof wall or ceiling mounted audio/video
Finishes:	Antistatic Broadloom carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

2C.5 SPECIAL USE AREAS, Cont'd.

Other Requirements: Provide one way mirror from Observation Room into Suspect waiting. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6

2C.5.5 Observation Room: Provide a closed area between suspect waiting and Polygraph Exam Room for observation of suspects in each area. Provide visibility through one way mirrors. The room must have special construction for sound attenuation. There shall be a continuous 12" wide plastic laminate ledge under each window. Windows shall be a minimum of 42" above the finished floor. Viewing will be done while standing or on a stool. There shall be space for audio/video equipment and a computer with a monitor. Operation is 24/7.

Occupancy: 2

Adjacency Requirements: Between Suspect Waiting and Poly Exam Room. The room shall be accessible from corridor entry in secured suspect area.

Space Requirement: Minimum 80 SF

Mechanical: Space shall provide heating, cooling and ventilation. System shall be designed to minimize sound from supply and return systems

Electrical: Provide 120V duplex receptacles.

Lighting: Day lighting is not allowed. Provide recessed fluorescent dimmable lighting fixtures. Do not provide occupancy sensors. Lighting shall be designed to accommodate function of one way mirror

Communications: Do not provide telephone or data.

FF&E: Though persons are expected to stand during observation, provide two each wood straight leg stools without upholstery or castors so as to reduce any movement or noise which could affect the results of the tests.

Finishes: Broadloom carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

2C.5 SPECIAL USE AREAS, Cont'd.

Other Requirements: Observation Room must be located away from distracting noises such as street and office traffic or telephones. Observation Room shall be in the secured suspect area.

Provide one way mirror from Observation Room into Polygraph Exam Room. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6.

2C.5.6 Evidence Processing: All evidence that is brought into the CIDC must be processed. The agent will collect, label and prepare as required for handling by the evidence custodian. Operation is 24/7. Space shall be provided for a drying machine, a fuming machine and layout space for other equipment. The evidence processing agent will only use this room to perform the specialized tasks. Lockers shall be provided adjacent to the processing area to store the suspect's personal belongings (coats, wallets, jewelry).

Occupancy 1

Adjacency Requirements: Duty Office.

Space Requirement: See Appendix, Floor Plans

Mechanical: Provide heating, cooling and ventilation

Electrical: Provide 120V duplex receptacles

Lighting: Day lighting is not desirable, and shall be controlled when used. Provide recessed fluorescent lighting fixtures with occupancy sensors.

Communications: Provide telephone and data connections.

Finishes: Resilient floor, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

FF&E: Provide one desk with return with lockable pedestals. Provide two desk chairs, a guest chair and a layout table (minimum 30" x 60").

Other requirements: Accommodate space and power for drying chamber and super glue fuming machines. This equipment shall have integral ventilation system. Comply with 'Evidence Procedures' Army Regulation 195-5.

2C.5 SPECIAL USE AREAS, Cont'd

2C.5.7 Evidence Custodian: All evidence that is brought into the CIDC must be passed to the Evidence Custodian to be placed in Evidence Depository. The agents will process the evidence and then submit this evidence to the custodian. The Evidence Custodian will label, document and prepare evidence as required to be stored in the Evidence Depository which is adjacent to the Evidence Custodian office or to mail out to other locations for testing. Operation is 24/7. The room will not be occupied full time. The evidence custodian will only use this room to perform the specialized tasks. They will have their own office space located with other personnel.

Occupancy 1

Adjacency Requirements: Evidence Depository.

Space Requirement: See Appendix, Floor Plans

Mechanical: Provide heating, cooling and ventilation

Electrical: Provide 120V duplex receptacles

Lighting: Day lighting is not desirable, and shall be controlled when used. Provide recessed fluorescent lighting fixtures with occupancy sensors.

Communications: Provide telephone and data connections.

Finishes: Resilient floor tile and base, painted GWB walls and suspended acoustic ceiling grid/tile system.

FF&E: Provide one desk with return and lockable pedestals. Provide two desk chairs, a guest chair and a layout table (minimum 30" x 60").

Other requirements: Provide a doorway between the Evidence Processing Office and the Evidence Depository. This opening must have two consecutive doors. One door is to be of steel construction and one door to be of steel or wood construction. Special hardware and an intrusion detection system are required.

Comply with 'Evidence Procedures' Army Regulation 195-5.

2C.5 SPECIAL USE AREAS, Cont'd

2C.5.8 Evidence Depository: A secure room for the storage of evidence. Room shall be equipped with steel evidence storage lockers. Provide special arms lockers, refrigerated storage lockers and heavy duty open and closed shelves to store evidence. The Operation is 24/7.

Adjacency Requirements: Evidence Processing

Space Requirement: See Floor Plans.

Mechanical: Provide separate heating, cooling and ventilation

Electrical: Provide 120V duplex power receptacles. Provide electrical for refrigerated storage lockers.

Lighting: Day lighting is not allowed. Provide fluorescent lighting with occupancy sensor.

Communications: Provide telephone and data connections.

FF&E: Metal evidence storage lockers, refrigerated lockers, gun lockers, and heavy duty open and closed shelving. Quantity and type of lockers to be determined by the facility.

Finishes: Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system

Other requirements: Only one entry is allowed into the depository and there must be one opening with two consecutive doors. One door is to be of steel construction and one door to be of steel or wood construction. Special hardware and an intrusion detection system are required.

Comply with 'Evidence Procedures' Army Regulation 195-5.

2C.5.9 Duty Office:

This office shall be used by the agent on duty to process paperwork for suspects entering the facility. The office shall be located near the rear vestibule and have window to the back of the building if possible. The windows shall allow the Duty Officer to see the parking area and path to rear vestibule. The Operation is 24/7.

Adjacency Requirements:	Rear vestibule of building
Space Requirement:	See Floor Plans.
Mechanical:	Provide separate heating, cooling and ventilation
Electrical:	Provide 120V duplex power receptacles.
Lighting:	Day lighting is desirable. Provide fluorescent lighting with occupancy sensor.
Communications:	Provide telephone and data connections.
FF&E:	Provide a desk with return, metal with plastic laminate top, one desk chair and one guest chair. Also include a four drawer lateral file cabinet with a lock for each drawer (for temporary evidence storage) and a four shelf open bookcase.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system

2C.5 SPECIAL USE AREAS, Cont'd.

2C.5.10 Photo ID Room:	A work room for the processing of photo identification is required. Provide a camera mounted on the wall or on a tripod and a plastic coating dispenser for processing photos. A sink/counter will be provided for layout space and cleaning and finger printing equipment. This area operates 24/7.
Adjacency Requirements:	Duty Agent and within the 'suspect secured area'
Space Requirement:	See floor plans
Mechanical:	Provide heating, cooling and ventilation
Plumbing:	Provide a single sink with gooseneck faucet and disposal.
Electrical:	Provide 120V duplex receptacle at perimeter of room and GFI outlets above counter top.
Lighting:	Day lighting is not desirable and shall be controlled when used. Provide fluorescent lighting with occupancy sensor.
Communications:	Provide wall mounted telephone and data connections.
FF&E:	No furniture is required.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling tile/grid system.
Other requirements:	Provide a minimum of 10 lineal feet of solid polymer surface countertop with base and wall cabinets with adjustable shelves and upper wall cabinets with adjustable shelves and a service sink, faucets and disposal.

2C.5 SPECIAL USE AREAS, Cont'd.

2C.5.11 Arms Vault:	Provide a secure vault for the storage of arms and ammunition.
Function:	Secure storage of weapons
Adjacency Requirements:	Table of Organization and Equipment (TOE) and Storage.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling, dehumidification and ventilation.
Electrical:	Provide 120V duplex receptacle and electrical infrastructure for intrusion detection system.
Lighting:	Day lighting is not allowed. Provide fluorescent lighting with occupancy sensors.
Communications:	Provide empty conduit with pull string for government installed intrusions detection system.
FF&E:	Provide gun racks, shelving and clearing barrel. The quantity and type to be determined by the facility.
Equipment:	Intrusion detection system
Finishes:	Sealed concrete floor and epoxy painted CMU walls and concrete ceiling.
Other Requirements:	Provide GSA approved Class 5 vault door (w/ day gate). Walls and ceiling of Vault shall be reinforced concrete masonry or concrete. Floor shall be reinforced concrete. Rack anchor rings shall be provided. Comply with AR 190-11 Physical Security of Arms, Ammunition and Explosives.

2C.5 SPECIAL USE AREAS, Cont'd.**2C.5.12 TABLE OF ORGANIZATION AND EQUIPMENT (TOE):**

The TOE is intended to store a variety of materials and equipment. Provide industrial grade double doors to the exterior. Items may include traffic gear, medical equipment, kits for hostage situations, kits for biological events. Some items may have to be stored in wire cages with locks which will also be inside the TOE. The agents will go to the TOE and gather the appropriate 'equipment to go box' before leaving the facility and return the equipment to the TOE upon their return.

There should be a burn barrel outside the TOE so the Agents may discard munitions upon their return.

Function:	Storage
Adjacency Requirements:	Adjacent to the COF in Battalion Headquarters' Buildings. Adjacent to the Arms Vault and Evidence Processing in the RA Buildings.
Space Requirement:	See floor plans
Mechanical:	Provide heating, cooling and ventilation.
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting (other than double doors) is not allowed. Provide ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards and occupancy sensors.
Communications:	Provide wall mounted telephone.
FF&E:	Heavy duty industrial open rack shelving 24" D and 30" D, minimum 20 lineal feet.
Finishes:	Sealed concrete floors and epoxy painted CMU walls.

2C.5 SPECIAL USE AREAS, Cont'd.**2C.5.13 CRIMINAL INTELLIGENCE CENTER (CIC):**

The Criminal Intelligence Center is a closed room with desk area with SIPRNET connections.

Occupancy:	1
Adjacency Requirements:	150 – 200 SF
Mechanical:	Provide heating, cooling and ventilation. Mechanical system shall be designed to accommodate partial to full occupancy with temperature control separate from other portions of the building.
Electrical:	Provide convenience power receptacles at perimeter of room. If table is in center of room, provide power and data in the floor.
Lighting:	Daylight is not desirable. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide telephone and data connections. Also provide SIPRNET Connections as per 'Technical Guide for the Integration of the Secret Internet Protocol Router Network'.
FF&E:	Provide wood conference table and conference room seating on castors to accommodate 4-6 or 6-8 persons. Include separate work station in corner for SIPRNET equipment
Accessories:	Provide coat hook on back of door and clock
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.
Other:	Construction shall meet requirements of Technical Guide for the Integration of the Secret Internet Protocol Router Network (SIPRNET) published by USAISEC Criteria.

Room Adjacency Matrix - Field Operations Building 24 Resident Agents

	Lavatories	Shower	Janitor	Mech / Elec	TR	Administrative Areas	Visitor Waiting	Admin-Operations	Multi-purpose Lounge	Command Conference	Interview Rooms	Storage Areas	Special Use Areas	Suspect Waiting	Polygraph Office	Polygraph Exam	Observation Room	Suspect Toilet	Evidence Processing	Evidence Custodian	Evidence Depository	Duty Officer	Photo ID	Arms Vault	TOE Storage	RA CIC	Personel Areas	Special Agent in Charge	SR Team	Drug Supression Team	Special Agents	DST Suite	Remarks:		
Support Areas																																			
Lavatories		1	1				3	4	4																										Directly adjacent to lobby, but separated w/door
Shower	1		2				3	4	4																										
Janitor	1	2					3	4	4																										
Mech / Elec					1																				2										At rear of Building, w/ access to exterior
TR					1																			2											
Administrative Areas																																			
Visitor Waiting	2		3					1																											
Admin-Operations	2	3					1				4																	2	4						
Multi-purpose Lounge	1	2					3				4																								
Command Conference	3	3					4	2			4															1									
Interview Rooms	3	4					1	2	4																			3	3	3	3				
Storage Rooms								2																				1	1	1	1				Includes Secure Stor, Reg Stor & Supplies
Special Use Areas																																			
Suspect Waiting															1	1	1	1					2	2	3	4									
Polygraph Office														1	1	1	1						2	2	3	4									
Polygraph Exam														1	1	1	1						2	2	3	4									
Observation Room														1	1	1	1						2	2	3	4									
Suspect Toilet														1	1	1	1						2	2	3	4									
Evidence Processing																					2	3	1	3											
Evidence Custodian																				2	1	2	3												
Evidence Depository																				2	1														
Duty Officer															2	2	2	2	2	2	3	3		1	4	3							3	Adjacent to vestibule @ rear of building	
Photo ID															2	2	2	2	2	3	3	1											4		
Arms Vault																					4	4	3			2									
TOE Storage					4																		3		1	2									
RA CIC																												1	1	1	1	1			
Personel Areas																																			
Special Agent in Charge							3	2			4																								
SR Team							3	2			4																	1	1	1	1	1			
Drug Supression Team							3	2			4																	1	1	1	1	1			
Special Agents							3	2			4																	1	1	1	1	1			
DST Suite											2									3	3	1	4												
	Adjacent	2	On same corridor	3	Down the corridor	4	Same side/end of Bldg	No Adjacency																											



P E R S P E C T I V E
USACE-CIDC DETACHMENT 24 BUILDING

2D.1 BATTALION HQ BUILDING

2D.1.1 Program. The following list of Areas and/or Rooms should be programmed and planned into the CIDC Battalion HQ Building. See 2D.2 for the 'Functional Space Descriptions and Performance Requirements' for each Area and/or Room.

2D.1.2 Support Areas

- Vestibule
- Women
- Men
- Shower (within Women's and Men's Rooms)
- Janitor
- Mechanical
- Electrical
- Telecommunications Room (TR)
- Corridors

2D.1.3 Administrative Areas

- Visitor Waiting
- Break Room
- Classroom & Storage
- Command Conference
- Secured Storage
- General Storage, Supply Room, Central Files
- Message Center
- Duty Office

2D.1.4 Special Use Areas

- Polygraph Office
- Polygraph Exam
- Observation Rm.
- Evidence Processing/Evidence Custodian
- Evidence Depository
- Arms Vault
- Table of Organization and Equipment (TOE)

2D.1 BATTALION HQ BUILDING, Cont'd.**2D.1.5 Command : Program Information for Personnel & Support Areas:**

The Command section needs to be located away from heavy traffic activities and must provide a means for support personnel to control the flow of visitors. It should be located with a proximity to the main entrance that allows visitors to have access to the reception area without moving through operational areas of the building.

<u>Personnel</u>	<u>Space/Quantity</u>	<u>Grade</u>	<u>Office Prototype</u>
• Commander w/ SIPRNET	1 Office / 1 Person	05	OP3
• Exec Officer	1 Office / 1 Person	04	OP2
• CMD SGM	1 Office / 1 Person	E9	OP2
• Office Support Tech	<u>1 Office / 1 Person</u>	GS09	OP1
• Command Conference			
• Storage Rm			
• Toilet			
TOTAL Personnel	4 Each		

2D.1.6 S-1: Program Information for Personnel

The S-1 Office area is where the Human Resource function is performed. While the S-1 has representatives who support operation activities in the building, they serve a clientele that often does not have a requirement for access to operational areas. S-1 serves Human Resource specialists from subordinate organizations and agencies. It generally does not provide customer service to individual soldiers. Proximity to the Command suite is recommended as long as traffic does not invade the privacy of the Command suite.

<u>Personnel</u>	<u>Space/Quantity</u>	<u>Grade</u>	<u>Office Prototype</u>
• S-1 Officer	1 Office / 1 Person	02	OP1
• SR HR Sgt.	1 Office / 1 Person	E7	OP1
• HR Sgt	Work Stations / 2	E5,E5	OP6
• Para-Legal Specialists	Work Station / 1	E4	OP6
• HR Specialists	Work Stations / 2	E4, E3	OP6
• Budget Tech	<u>Work Station / 1</u>	GS10	OP6
TOTAL Personnel	8 Each		

2D.1 BATTALION HQ BUILDING, Cont'd.**2D.1.7 S-2 / S-3: Personnel & Support Areas**

The S-2 Office provides support for intelligence surveillance & reconnaissance including a variety of secure communications capabilities. They will require direct access to a secure exterior vehicle compound. S-2 should be located away from areas that have customer service activities.

The S-3 Office provides coordination between the staff offices, operations, plans and training functions. They house a variety of staff which is autonomous but work under the direction of the S-3 Office. Because the S-3 Office integrates the operational functions of these other staff sections as they relate to the mission, it should be centrally located as possible.

<u>Personnel</u>	<u>Space/Quantity</u>	<u>Grade</u>	<u>Office Prototype</u>
• S-2 / S-3 Officer w/ SIPRNET	1 Office / 1 Person	04	OP3
• CID Operations Officer	1 Office / 1 Person	CW5	OP1
• LOG Security Officer	1 Office / 1 Person	CW4	OP1
• Forensic Officer	1 Office / 1 Person	CW3	OP1
• Operations NCO	1 Office / 1 Person	E8	OP1
• CRBN Staff	1 Office / 1 Person	E7	OP1
• Polygraph Examiner	2 Office / 2 Persons	CW3, CW2	OP1 & OP2
• Criminal Intel Officer w/SIPRNET	1 Office / 1 Person	CW3	OP1
• Super Criminal Officer	1 Office / 1 Person	E6	OP1
• CID Special Agent	Work Station / 1	E7	OP6
• Criminal Intel	Work Stations / 4		OP6
• Evidence Processing	<u>1 Office / 1 Person</u>		OP1
• Polygraph Exam Rm			
• Observation Rm			
• Evidence Depository			
• S-2 / S-3 Storage Rm			
• Secure Document Storage			
TOTAL Personnel	16 Each		

2D.1 BATTALION HQ BUILDING, Cont'd.**2D.1.8 S-4: Personnel & Support Areas**

The S-4 Office includes staff that is responsible for the administration of the logistics, transportation and maintenance functions and other programs within the Battalion. S-4 generates traffic that should be excluded from operational areas. It does not provide direct customer service.

<u>Personnel</u>	<u>Space/Quantity</u>	<u>Grade</u>	<u>Office Prototype</u>
• S-4 Officer	1 Office / 1 Person	03	OP1
• SR Maintenance Super	1 Office / 1 Person	E8	OP1
• Supply Sergeant	1 Office / 1 Person	E7	OP1
• Property Book NCO	Work Station 1	E5	OP6
• Supply Specialist	<u>Work Station 1</u>	E4	OP6
• Supply Room			
TOTAL Personnel	5 Each		

2D.1.9 S-6: Personnel & Support Areas

The S-6 is the Office of Information Management. Though the S-6 does not provide a help desk function or hardware and software management in this facility, it does provide plans and policies for the organization as a whole and exercises staff supervision of the IT specialists who provides direct support to users.

<u>Personnel</u>	<u>Space/Quantity</u>	<u>Grade</u>	<u>Office Prototype</u>
• S-6 Officer	1 Office / 1 Person	03	OP1
• Section Chief	1 Office / 1 Person	E7	OP1
• LAN Mgr	Work Station 2	E4, E3	OP6
• Signal Info Svc SP	<u>Work Station 1</u>	E4	OP6
• Supply Room			
TOTAL Personnel	5 Each		

2D.1 BATTALION HQ BUILDING, Cont'd.**2D.1.10 COF: Personnel & Support Areas**

The Company Operations Facility (COF) spaces house the command and administrative personnel who support the CIDC Company assigned to the Battalion.

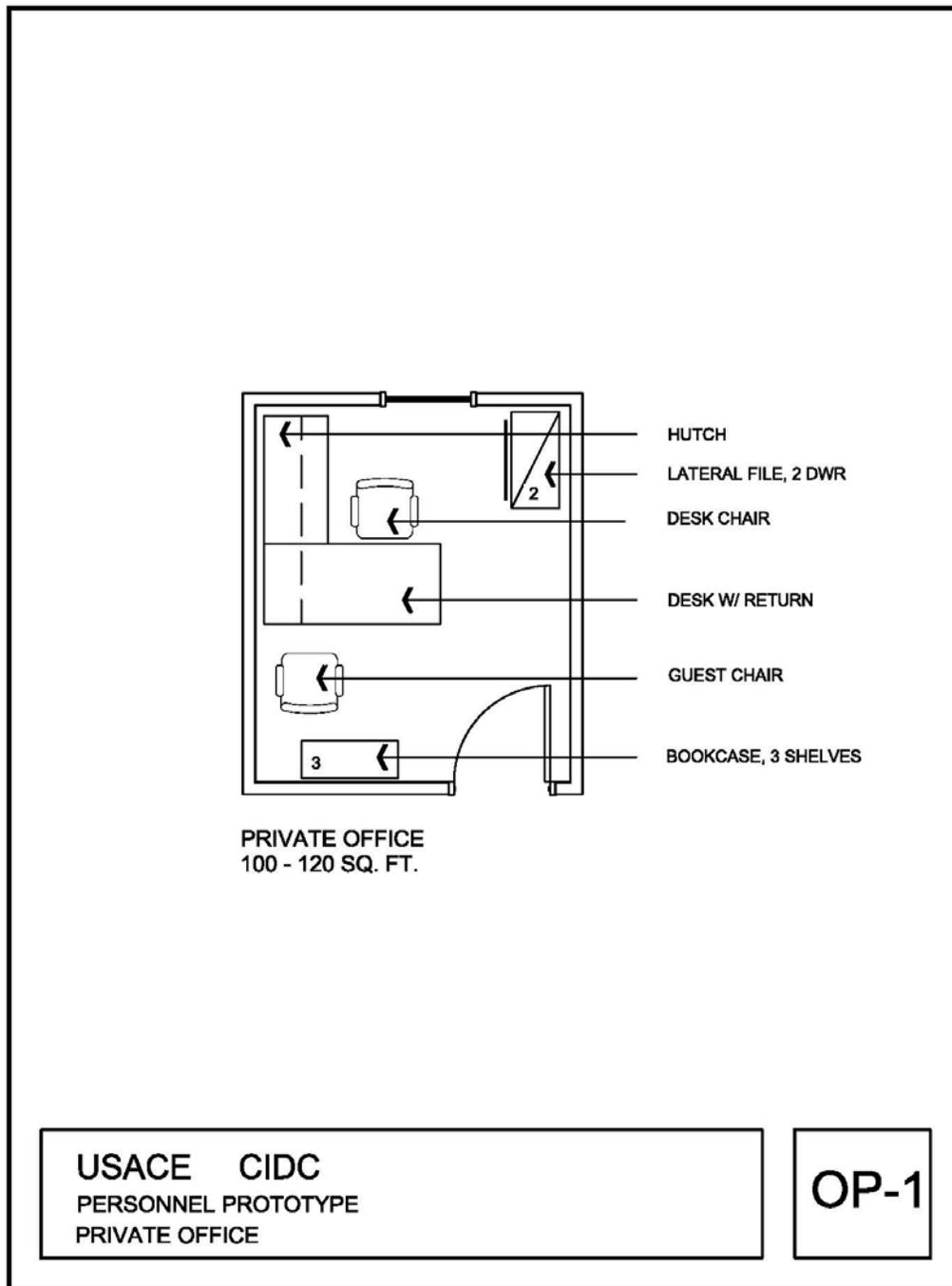
<u>Personnel</u>	<u>Space/Quantity</u>	<u>Grade</u>	<u>Office Prototype</u>
• Commander	1 Office / 1 Person	O3	OP2
• Detachment Sgt	1 Office / 1 Person	E7	OP1
• Motor Sgt	Work station 1	E6	OP6
• Equipment & Parts Sgt	Work Station 1	E5	OP6
• Chaplain	Work Station 1	O5	OP1
• Chaplain Assistant	Work Station 1	E5	OP1
• Supply Sgt	Work Station 1	E5	OP6
• HR Specialist	Work Station 1	E4	OP6
• CBRN Decon Specialist	Work Station 1	E4	OP6
• Vehicle Mechanic	Work Station 1	E4	OP6
• Equipment & Parts Specialist	Work Station 1	E4	OP6
• Supply Room			
• Table of Organization & Equipment (TOE) & Storage			
• Arms Vault			
TOTAL Personnel	11 Each		
TOTAL Personnel in Battalion	49 Each		

2D.2 PERSONNEL SPACE REQUIREMENTS

2D.2.1 Office Prototype OP-1 - Private Office – Single Person Occupancy

Provide an enclosed space w/ door & lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

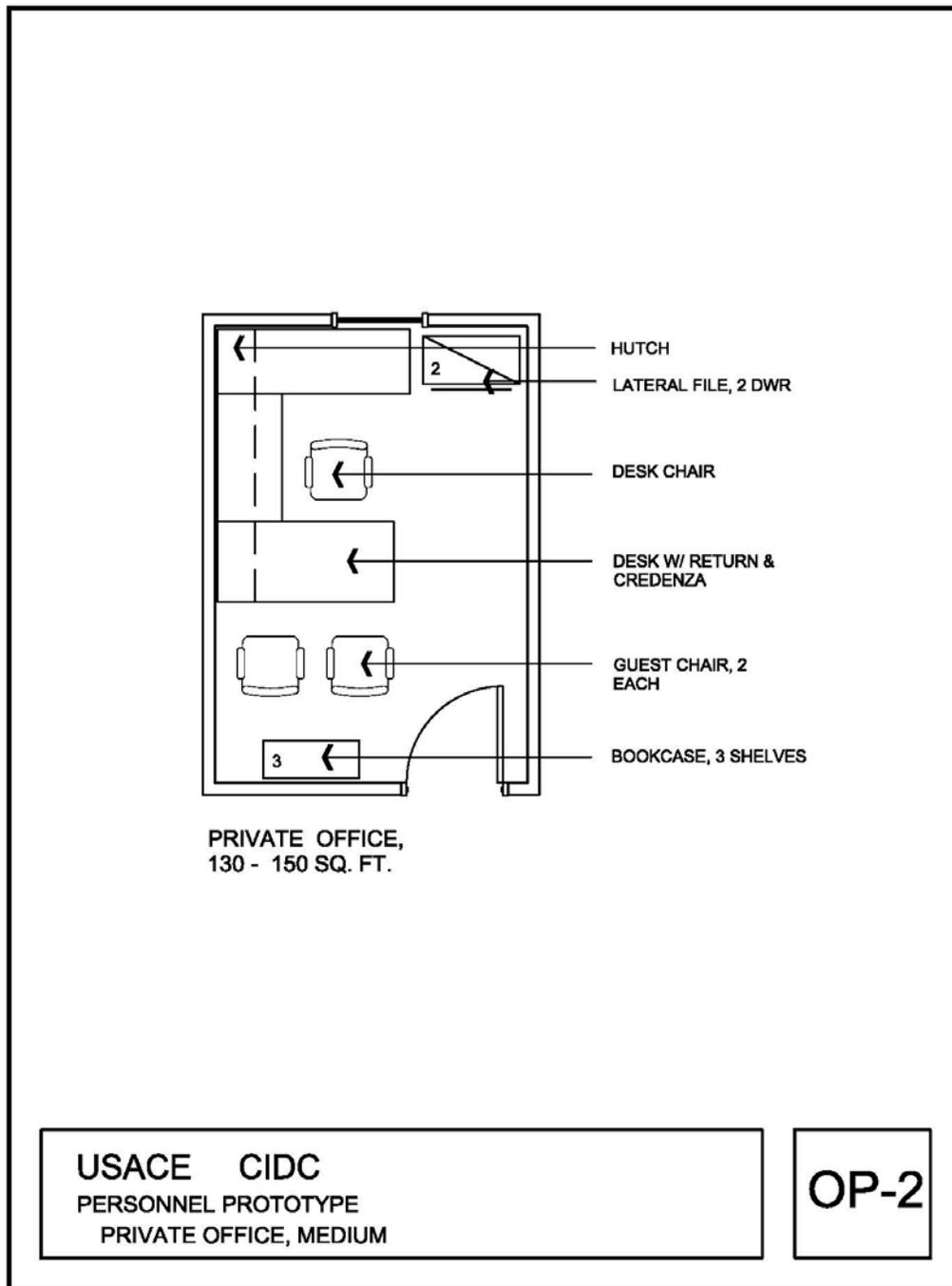
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 100 SF-120 SF.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and should be controlled when used. Each room shall have occupancy sensors
Communications:	Provide telephone and data connections.
FF&E:	Government furnished equipment includes metal furniture with wood grain plastic laminate tops: <ul style="list-style-type: none"> • Desk, single pedestal: 30" x 60" • Return 24" x 48" • Hutch (over return or over credenza as appropriate) • Desk Chair: 1 Each • Guest Chair: 1 Each • Bookcase, 3 shelves, 36" wide • Lateral File Cabinet, 2 drawer 36" wide
Miscellaneous	Coat hook on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2D.2 PERSONNEL SPACE REQUIREMENTS, Cont'd**2D.2.2 Office Prototype OP-2, Medium Size Office – Single Person Occupancy**

Provide an enclosed space w/ door and lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

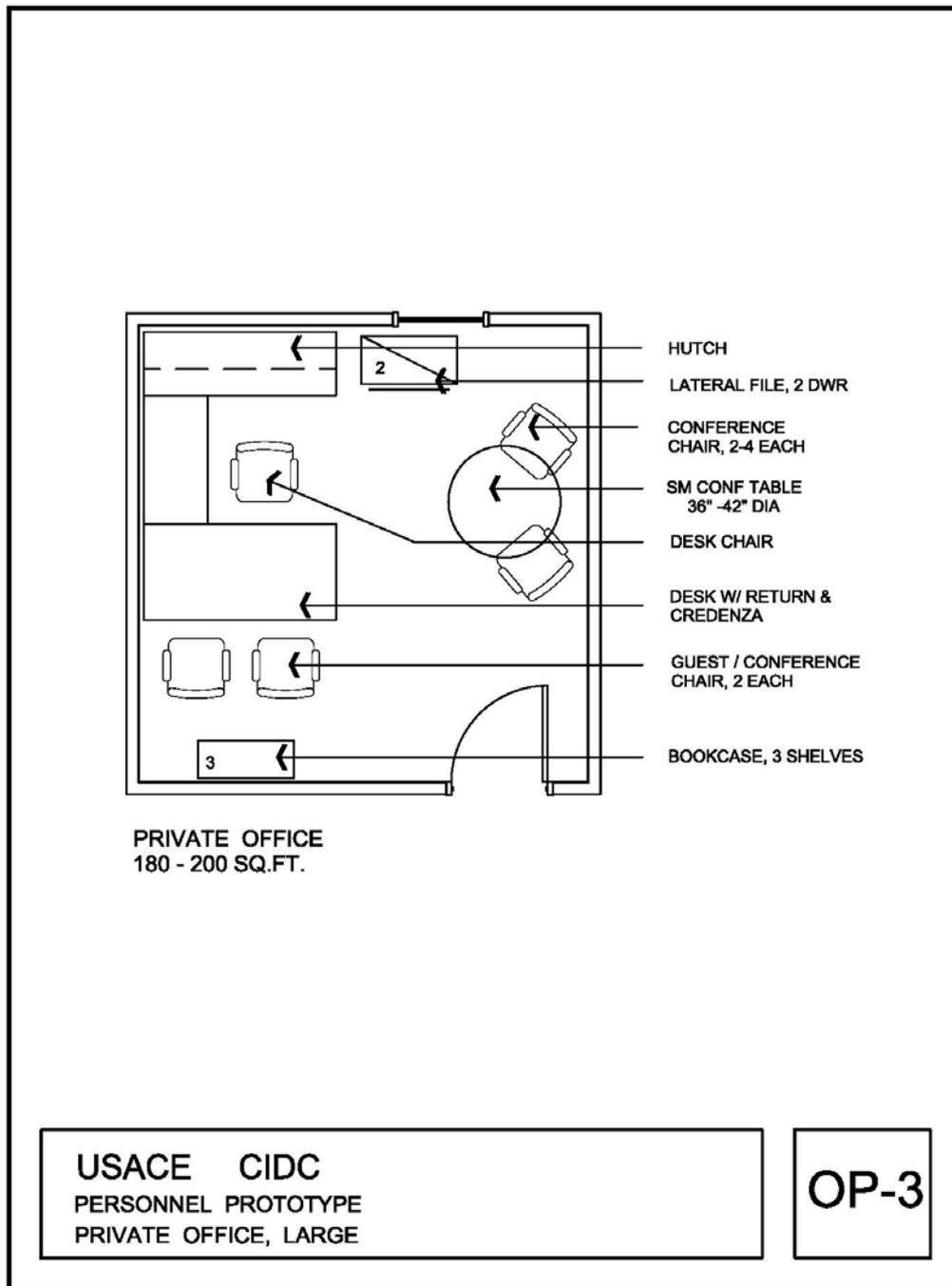
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 130 SF-150 SF
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide Four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors
Communications:	Provide telephone and data connections.
FF&E:	Government furnished equipment includes metal desk with plastic laminated tops and other metal casegoods <ul style="list-style-type: none"> • Desk, single pedestal: 30" x 60" or 36" x 72" • Return 24" x 48" • Credenza w/ 2 dwr file 24" x 60" or 24" x 72" • Hutch (over return or over credenza as appropriate) • Desk Chair • Guest Chair (2 each) • Bookcase, 3 shelves, 36" wide • Lateral File Cabinet, 2 drawer, 36" wide
Miscellaneous	Coat hook on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2D.2 PERSONNEL SPACE REQUIREMENTS, Cont'd.**2D.2.3 Office Prototype OP-3, Large Size Office – Single Person Occupancy**

Provide an enclosed space w/ door and lock for single person occupancy (Category Code 17120). The size is to comply with personnel rank/grade and/or function.

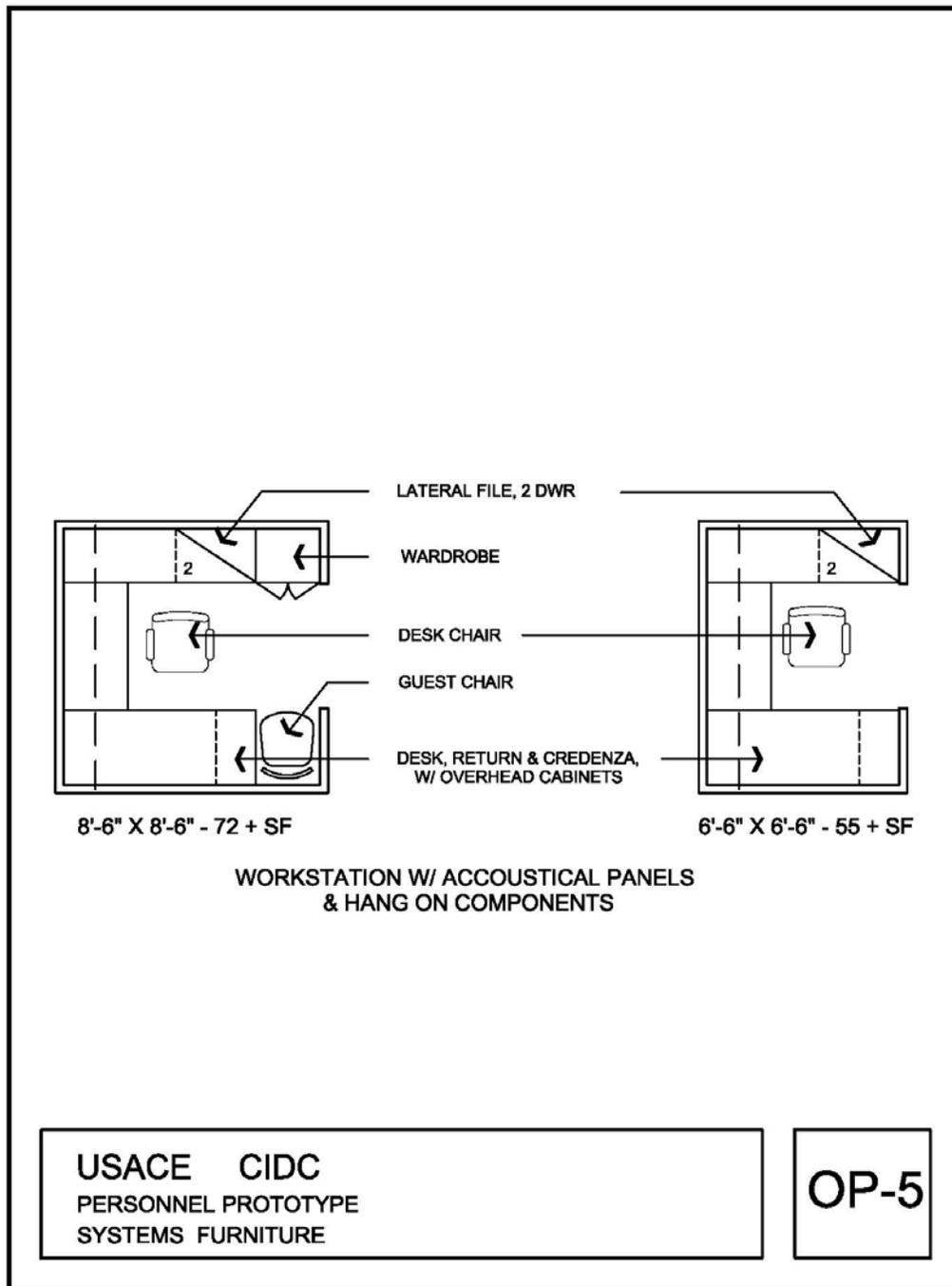
Function:	Office
Occupancy:	1
Space Requirement:	Varies from 180 SF-200 SF.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide four (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and shall be controlled when used. Each room shall have occupancy sensors.
Communications:	Provide telephone and data connections. Provide a SIPRNET outlet in SAC Office and CIC Office.
FFandE:	Government furnished equipment includes wood or metal casegoods: <ul style="list-style-type: none"> • Desk, single pedestal: 36" x 72" • Return 24" x 48" • Credenza w/ 2 dwr file 24" x 72" • Hutch (to be used over return or credenza) • Desk Chair • Guest Chair (2) • Round Conference Table 36"-42" Diameter • Lateral File Cabinet, 2 drawer 36" wide
Miscellaneous	Coat hooks on back of door.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2D.2 PERSONNEL SPACE REQUIREMENTS, Cont'd.**2D.2.4 Office Prototype OP-5, Systems Furniture Work Station – Single Person Occupancy**

Provide a Work Station with acoustical panels and hang on components for single person occupancy. The size is to comply with personnel rank/grade and/or function.

Function:	Work Station
Occupancy:	1
Space Requirement:	Varies from 36 SF to 64 SF
Mechanical:	NA
Electrical	Provide two (4) 120V duplex power receptacles.
Lighting:	Day lighting is desirable, and should be controlled when used. Each room shall have occupancy sensors
Communications:	Provide telephone and data connections
FF&E:	Government furnished equipment includes fabric covered acoustical panels with raceway for power and data. <ul style="list-style-type: none"> • Counter: 30" x 60" • Return 24" x 42 or 24" x 48" • Credenza: 24" x 60" w/ 2 drawer lateral file • Desk Chair: 1 Each • Guest Chair: 1 Each • Overhead cabinets • Wardrobe
Miscellaneous	.Coat hook/rod in wardrobe.
Finishes:	Carpet, rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system.



2D.3 SUPPORT AREAS

2D.3.1 Vestibule:

Vestibule is accessed from exterior and serves as a transition to the conditioned space of the building into the main lobby. The vestibule shall accommodate the maximum number of people determined by the occupancy load.

Function: Entry into Visitor Waiting

Adjacency Requirements: Exterior, Visitor Waiting, Corridors

Space Requirement: Minimum 150 SF

Mechanical: Space shall provide heating, cooling and ventilation.

Electrical: Provide 120V duplex power receptacles for maintenance.

Communications: Provide intercom connections with paging speakers.

Finishes: Quarry or porcelain tile and base with recessed walk off mat and GWB or plaster ceiling painted ceilings. Vestibule shall have glass windows and or GWB painted walls

2D.3 SUPPORT AREAS, Cont'd.

2D.3.2 Women:	Provide female toilet room with minimum number of fixtures. Include accessible fixtures as required by code. Arrange the entrance to provide visual privacy. This room will be used by visitors and staff. Doors shall be used designed with separate entries for visitors and staff.
Occupancy:	As required per code
Adjacency Req'd:	Visitor Waiting area and Men's Room
Space Requirement:	See Floor Plans
Plumbing:	Efficiently locate fixtures. Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain outside of traffic areas. Provide countertop with integral mounted lavatories. Provide wall hung toilets and urinals Lavatories and toilets shall have automatic valves. Installation shall determine if the valves are battery or hardwired.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide one (1) 120V GFI-duplex power receptacles at each sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power.
Lighting	Provide GWB ceiling with fluorescent fixtures.
Communications:	NA.
Equip and Accessories:	Countertop shall be solid surface material with integrated bowls. Provide solid polymer overhead-braced type toilet partitions at each toilet. Provide the following toilet accessories; one continuous mirror full width of countertop at lavatory; full length mirror, paper towel dispenser/waste receptacle; soap dispensers for each lavatory, one toilet tissue dispenser per toilet; one robe hook on each toilet partition door; one sanitary napkin/tampon vending machine. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile 4'-0" AFF and GWB or plaster painted ceilings.

2D.3 SUPPORT AREAS, Cont'd.

2D.3.3 Men:	Provide male toilet room with minimum number of fixtures. Include accessible fixtures as required by code. Arrange the entrance to provide visual privacy. This room will be used by visitors and staff. Doors shall be used designed with separate entries for visitors and staff.
Occupancy:	As required by code
Adjacency Req:	Visitor Waiting area and Women's Room
Space Requirement:	See Floor Plans
Plumbing:	Efficiently locate fixtures. Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain outside of traffic areas. Provide countertop with integral mounted lavatories. Provide wall hung toilets and urinals Lavatories and toilets shall have automatic valves. Installation shall determine if the valves are battery or hardwired.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide one (1) 120V GFI-duplex power receptacles at sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power.
Lighting:	Provide GWB ceiling with fluorescent fixtures.
Communications:	NA
Equip and Accessories:	Countertop shall be solid surface material with integrated bowls. Provide solid polymer overhead-braced type toilet partitions at each toilet. Provide the following toilet accessories; one continuous mirror full width of countertop at lavatory; full length mirror, paper towel dispenser/waste receptacle; soap dispensers for each lavatory, one toilet tissue dispenser per toilet and one robe hook on each toilet partition door. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile 4'-0" AFF and GWB or plaster painted ceilings.

2D.3 SUPPORT AREAS, Cont'd.

2D.3.4 Shower Room:	Provide accessible shower area in Women's Room and Men's Room
Function:	Shower room for staff.
Adjacency Required:	Adjacent to other areas with plumbing (i.e., Men's & Women's Rooms, Janitor's closet, Staff Break Area)
Space Requirement:	See Floor Plans
Plumbing:	Provide a minimum of one tamper proof floor drain with deep seal trap; locate floor drain in Shower Area. Efficiently locate fixtures. Toilets and lavatory shall have automatic valves. Installation shall determine if the valves are battery or hardwired. Do not use prefabricated shower stall.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical	Provide one (1) 120V GFI-duplex power receptacles at counter top height at the sink. Provide one (1) 120V GFI-duplex power receptacles at floor level for convenience power
Lighting:	Provide GWB ceiling with fluorescent fixtures with prismatic lenses. Provide occupancy sensors.
Communications:	NA
FF&E:	Provide five times the quantity of lockers as toilet/urinal fixtures. Provide half size lockers (stack two high). The lockers shall be solid polymer, have two tiers and mounted above raised concrete platform base. Provide one mirror above lavatory/vanity, one full length mirror, one paper towel dispenser/waste receptacle per two sinks; one soap dispenser per sink; one robe hook per stall. Accessories shall be fabricated from stainless steel and vandal proof. Provide semi recessed units where possible.
Finishes:	Porcelain floor tile and base, ceramic wall tile to ceiling in shower locations and wet walls and GWB or plaster painted ceilings.

2.D.3 SUPPORT AREAS, Cont'd.

2D.3.5 Janitor:	Provide one Janitor closet for building maintenance.
Function:	Janitors Closet is to store cleaning and maintenance housekeeping supplies and equipment.
Adjacency:	Men's and Women's Room
Space Requirement:	Minimum 48 SF
Plumbing:	Provide floor mounted mop sink and floor drain. Faucet shall be designed to support a bucket and have a threaded end to receive a hose.
Mechanical:	Space shall be ventilated
Electrical	Provide GFI-protected convenience receptacle adjacent to the shelving.
Lighting:	Provide wall mounted or ceiling hung industrial linear fluorescent lights.
Communications:	NA
Equipment:	Provide a wall mounted metal strip to hang mops locate near floor mounted mop sink. Include one each 3'-0" wide open industrial type metal shelving to store cleaning supplies.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system

2D.3 SUPPORT AREAS, Cont'd.

2D.3.6 Mechanical:	Provide a dedicated interior space for plumbing, fire protection, and HVAC equipment with access from the exterior. Size and locate rooms (including doorways) to allow equipment removal and maintenance. Provide floor openings and vertical openings as necessary.
Function:	Space for mechanical systems to service the building.
Adjacency Requirements:	Locate main mechanical room on ground floor with double doors opening to the exterior. Mechanical room shall not be used for storage or other purposes; access shall be limited to authorized personnel. Locate exterior mechanical equipment and air intake and openings in exterior walls to comply with force protection standards.
Space Requirement:	This area is part of the gross area factor calculation. The area is to be equal to or greater than 5% of the gross building area for planning purposes. Actual required area shall be determined during programming based upon geographical location.
Plumbing:	Provide floor drain, faucet and other plumbing as required for functions of space.
Mechanical:	Provide heating, cooling, ventilation and exhaust as required.
Electrical	Provide convenience power receptacles as well as required service for equipment.
Lighting:	Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.
Communications:	Provide telephone service for energy management system and a wall mounted telephone outlet general use.
Equipment:	As required.
Finishes:	Sealed concrete floor, painted GWB walls with exposed structure ceiling.

2D.3 SUPPORT AREAS, Cont'd.

Other requirements: Locate air intake and exhaust openings to provide optimum indoor air quality. Locate air intakes to comply with AT/FP requirements.

Fire Pump Room: An area has been identified (see dashed line on floor plan) for the location of a Fire Pump Room is required.

2D.3.7 Electrical: Provide dedicated interior space with exterior access for electrical equipment. Size and locate room (including doorways) to allow equipment removal and maintenance.

Function: Electrical support space for the building

Adjacency Requirements: Access from exterior, and interior corridor and adjacent to the Mechanical Room.

Space Requirement: The area is part of the gross area factor calculation. Total area is to be equal to or greater than 5% of the gross building area for planning purposes. Actual required area shall be determined during programming based upon geographical location.

Mechanical: Space shall be ventilated.

Plumbing: Do not run plumbing over electrical panels.

Electrical: Provide 120V convenience power receptacles.

Lighting: Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.

Communications: Provide telephone service for fire alarm and security systems. Where transmitters and antennas are used by the installation, provide compatible equipment. Provide a wall-mounted telephone outlet for general communications.

Equipment: As required.

Finishes: Sealed concrete floor, painted GWB walls with exposed structural ceiling.

2D.3 SUPPORT AREAS, Cont'd.

Other Requirements: Electrical service to the building shall be underground. Provide masonry screen walls with lockable metal access gates around outdoor equipment. It is preferable to locate transformer within the screened mechanical equipment. Comply with AT/FP standards

2D.3.8 Telecommunication Room: (TR): A Communications room is required to manage building connection to telephone, fiber optic, cable television, and other infrastructure. The room shall serve as a primary means of distributing information/communications through the facility to desktops.

Function: Communications service to the building

Adjacency Requirements: Mechanical Room and Electrical Room

Space Requirement: The area is part of the gross area factor calculation.

Plumbing: Not Applicable

Mechanical: Provide adequate cooling for respective equipment in an independently climate controlled room. This equipment shall provide year-round ambient temperature control to protect all installed electronic equipment.

Electrical; Provide electrical support as required

Lighting: Provide wall mounted or ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.

Communications: Provide telephone and data connections

Equipment: GFGI distribution hardware, switches, servers, etc. Provide backboards and racks.

Finishes: Sealed concrete floor, painted GWB walls with exposed structural ceiling.

Other requirements: Route communications service to building's Entrance Facility (EF) via underground 4" conduits.

2D.3 SUPPORT AREAS, Cont'd.

2D.3.9 Corridors:	Provide as required for circulation. Minimum corridor width shall be as required by applicable codes, but not less than 5' -0" wide for administrative areas.
Function:	Circulation and egress; movement of equipment and personnel throughout the building. Provide insulated hollow metal doors and frames for exterior service areas.
Adjacency Requirements:	Exterior entrances and offices
Space Requirement:	The total net area as required by the design. The net area of corridors is part of the gross area factor calculation for the project.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical	Provide 120V duplex receptacles for convenience.
Lighting:	Day lighting is not required, and shall be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.
Communications:	Provide public address system in corridors and throughout public areas.
FF&E:	Provide room signage at doors to each room.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustical ceiling grid/tile system,
Other Requirements:	Coordinate user requirements for access control of exterior doors. Where equipment on carts or dollies is regularly moved through corridors, provide wall and corner guard protection.

2D.4 ADMINISTRATIVE AREAS

2D.4.1 Visitor Waiting:	This area shall be used by visitors to the facility. The visitors are usually witnesses. This area shall be available 24/7 for use by visitors. Provide access to Men's and Women's Toilet but without access to other parts of the building
Occupancy	Seating for 4 guests.
Adjacency Requirements:	Vestibule entry, Administrative Operations.
Space Requirement:	Provide a minimum area of 150 SF or more as may be required for different size facilities.
Mechanical:	Provide heating, cooling and ventilation.
Electrical	Provide 120V duplex receptacles.
Lighting:	Provide recessed fluorescent light fixtures.
Communications:	Provide wall mounted telephone.
FF&E:	Provide lounge seating for two and one side table.
Finishes:	Carpet, rubber base, painted GWB walls, or vinyl wallcovering and suspended acoustic ceiling grid/tile system,
Other Requirements:	Provide a bullet proof communication /transaction window and counter/ledge into Administration – Operations Office.

2D.4 ADMINISTRATIVE AREAS, Cont'd.**2D.4.2 Break Room**

Closed area used for staff to have meals with a kitchen area to support food preparation.

Function:	Serves as kitchen / break area. There should be casework, upper and lower cabinets to accommodate the fixtures described under 'plumbing'. There should be an area for recycling and there should be an area for at least two vending machines. Provide flat screen TV
Occupancy:	20-24 persons.
Adjacency Requirements:	Centrally located for maximum convenience to all staff.
Space Requirement:	See Floor Plans.
Mechanical:	Space shall provide heating, cooling and ventilation. Heat load calculations shall consider the quantity of users and the additional demands for stove top, oven and vending machines.
Plumbing:	Plumbing connections for a refrigerator ice maker and coffee maker. Provide stainless steel double bowl sink with faucets and instantaneous hot water dispenser. Water could be required for vending machines which require cooling/refrigeration.
Electrical	Provide convenience and counter height GFCI receptacles. Provide electrical connections for kitchen equipment such as refrigerator w/ icemaker, disposal, coffee maker, microwave, stove top/oven, vending machines and flat screen TV.
Lighting:	Day lighting is acceptable but not required and should be controlled when used. Provide recessed fluorescent light fixtures with occupancy sensors.

2D.4 ADMINISTRATIVE AREAS, Cont'd

Communications:	Space shall have wall mounted telephone. Provide conduit for cable and data for wall mounted flat screen TV.
FF&E:	<p>Provide seating for 20-24 persons using tables with plastic laminate tops and metal pedestal bases with stackable chairs.</p> <p>Provide microwaves (2 each), refrigerators w/ icemakers (2 each), dishwasher (1 each), stove top and oven (1 each) and vending machines (2 each, 1 for food and 1 for drinks).</p> <p>Provide clock, wall mounted flat screen TV and 6 feet wide marker board / tackable board.</p>
Casework and Millwork:	Provide a minimum of 12'-0" L, 24" D solid polymer counter top with kitchen sink, base cabinets with adjustable shelving and upper cabinets with adjustable shelves.
Finishes:	Resilient floor tile & base, painted GWB walls and suspended acoustic ceiling tile/grid system.

2D.4 ADMINISTRATIVE AREAS, Cont'd.**2D.4.3 Classroom:**

The space is used for classroom presentation. There shall be large marker boards, projection screens and/or 'smart boards'. This room shall be designed with flexibility to teach in the traditional lecture mode and use projection media. Power and network connections shall be provided in the room for future access to each desktop with a single projector and projection screen. Room shall have interactive whiteboard.

Function:	Instruction of students through lecture, projected images, computer presentation and written information on the board.
Occupancy:	50
Adjacency Requirements:	Centrally located with storage room(s) dedicated to the Classroom adjacent.
Space Requirement:	750-1000 SF
Mechanical:	Mech system shall be designed to accommodate partial to full occupancy with temperature control separate from other portions of the bldg. Equip & airflow shall be quiet
Electrical:	Provide convenience power receptacles at perimeter of room. Provide a layout of power in floor under training tables. Provide power for AV equipment as appropriate
Lighting:	Day lighting is desirable but not required, and should be controlled when used. Provide 2' x 2' Fluorescent direct/indirect fixtures & fluorescent down lights controlled by dimmers. Each room shall have individual lighting control that switches off automatically when the room is not in use.
Communications:	Space shall have telephone and LAN connections in same locations as power.
FF&E:	Provide chairs which nest/stack, training room tables (36" x 72" for two students) which nest/stack together.
Equipment	Provide ceiling mounted projector, projector mount and recessed projection screen. Also include a map rail, white board and interactive smart board.
Accessories:	Provide Clock and coat racks for 50 to be stored in adjacent Storage Rm

2D.4 ADMINISTRATIVE AREAS, Cont'd.

Finishes: Broadloom carpet, stain grade wood base, painted GWB walls & suspended acoustic ceiling grid/tile system.
Provide stain grade wood chair rail

2D.4.4 Command Conference Rm: Closed Conference area for large meetings.

Function: Meetings

Occupancy: 12-14, 16-18

Adjacency Requirements: Commander

Space Requirement: 360 – 400 SF

Mechanical: Space shall provide heating, cooling and ventilation

Electrical: Provide convenience power receptacles at perimeter of room. Provide power on wall for flat screen TV and Provide power in floor under table.

Lighting: Day lighting is desirable but not required, and should be controlled when used. Provide recessed fluorescent direct/indirect fixtures and compact fluorescent down lights controlled by dimmers.

Communications: Space shall have telephone and LAN connections in same locations as power. Space shall have data & cable television connection on wall. Flush data and power receptacles shall be located below probably table locations to avoid exposed wiring during meetings.

FF&E: Provide wood conference table 14' long w/ conference type seating with castors for 12-14 persons or 16' long w/conference type seating with castors for 16-18 persons as appropriate for the building. Include credenza/buffet and/or AV cart to house audio visual equipment.

Accessories: Provide coat hook on back of door, clock & flat screen TV.

Casework and Millwork: Provide stain grade wood chair rail at required height to protect wall from chairs.

Finishes: Broadloom carpet with borders and stained wood base, painted GWB walls and suspended acoustic ceiling grid/tile system

2D.4 Administrative Areas, Cont'd.

2D.4.5 Secured Storage:	Storage records shall be filed in the form of paper files and shall be stored in lockable file cabinets.
Function:	Storage Space for files.
Occupancy:	none
Adjacency Requirements:	Centrally located for maximum convenience to all staff.
Space Requirement:	See Appendix, Floor Plans
Mechanical:	Space shall provide heating, cooling and ventilation
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed. Provide recessed fluorescent light fixtures with occupancy sensors
Communications:	Provide 8-pin modular (RJ45 Type) connector in a single gang outlet faceplate with mounting lugs to accommodate a wall phone.
FF&E:	Provide lateral file cabinets 5 drawer high and 5 drawer high safes
Finishes:	Resilient floor, rubber base, painted GWB wall & suspended acoustic ceiling grid/tile system.
Other Construction:	Provide secured perimeter and hardware devices as required for 'Secured Storage'.

2D.4 ADMINISTRATIVE AREAS, Cont'd.

2D.4.6 General Storage: Supply Rm, Central Files	Storage is required for furniture, equipment, computers, and filing of paper, folders, binders and other types of documents.
Function:	Storage Space
Occupancy:	None
Adjacency Requirements:	Centrally located for maximum convenience to all staff.
Space Requirement:	Total net area equal to 2% of the gross building area subtotal.
Mechanical:	Space shall provide heating, cooling and ventilation.
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed. Provide recessed fluorescent light fixtures with occupancy sensors
Communications:	Provide 8-pin modular (RJ45 Type) connector in a single gang outlet faceplate with mounting lugs to accommodate a wall phone.
FF&E:	Provide lateral file cabinets 5 drawer high and industrial type shelving (18" D and 24" D)
Finishes:	Resilient floor tile & base, painted GWB wall & suspended acoustic ceiling grid/tile system.

2D.5 SPECIAL USE AREAS

2D.5.1 Polygraph Office:

This office is part of the Polygraph suite which also includes the Polygraph Room and Observation Room. This is an office where the polygraph officer manages the documents and other materials for polygraph exam. The office provides space for one polygraph person to monitor suspect's entry, waiting, exam and storage of materials which are necessary to operate the equipment. Operation is 24/7.

Occupancy:	2
Adjacency Requirements:	Poly Exam and entry into entry into Polygraph area. Room shall be in secured suspect area.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling and ventilation
Electrical:	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed, provide recessed fluorescent lighting fixtures with occupancy sensors.
Communications:	Provide telephone and data connections
FF&E:	Provide one desk with return (w/ lockable pedestals) and one desk chair (no castors).
Finishes:	Broadloom Carpet, resilient base, painted GWB walls and suspended acoustic ceiling grid/tile system
Other Requirements:	Special construction is required for sound attenuation, the partitions around the office may require acoustical wall materials if necessary to meet the requirements in Department of Army Polygraph activities Regulation AR 195-6.

2D.5.2 Observation Room:

Provide a closed area adjacent to Polygraph Exam Room for observation of examinees. Provide visibility through one way mirrors. The room must have special construction for sound attenuation. There shall be a continuous 12" wide plastic laminate ledge under each window. Windows shall be a minimum of 42" above the finished floor. Viewing will be done while standing or on a stool. There shall be space for audio/video equipment and a computer with a monitor. Operation is 24/7.

2D.5 SPECIAL USE AREAS Cont'd

Occupancy:	2
Adjacency Requirements:	Adjacent to Poly Exam Room. The room shall be accessible from corridor.
Space Requirement:	Minimum 80 SF
Mechanical:	Space shall provide heating, cooling and ventilation. System shall be designed to minimize sound from supply and return systems
Electrical	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed. Provide recessed fluorescent dimmable lighting fixtures. Do not provide occupancy sensors. Lighting shall be designed to accommodate function of one way mirror
Communications:	Do not provide telephone or data.
FF&E:	Though persons are expected to stand during observation, provide two each wood straight leg stools without upholstery or castors so as to reduce any movement or noise which could affect the results of the tests.
Finishes:	Broadloom carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.
Other Requirements:	Observation Room must be located away from distracting noises such as street and office traffic or telephones. Provide one way mirror from Observation Room into Polygraph Exam Room. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6.

2D.5.3 Polygraph Exam:	Provide room for conducting polygraph exams to suspects and/or witnesses or staff. There will be one examiner and one person taking the exam. Complete silence is required to perform a polygraph exam. The construction of the perimeter of the room, floor and ceiling must provide maximum acoustical benefit. Chairs shall not squeak or move around on casters. Any noise can distract the person taking the exam and the slightest movement can cause adverse effects on the integrity of the results. Lighting shall be designed to accommodate function of one way mirror from Observation Room. Operation is 24/7.
-------------------------------	---

2D.5 SPECIAL USE AREAS Cont'd

Occupancy:	2
Adjacency Requirements:	Exam room must be located away from distracting noises such as street and office traffic, telephone or latrines. Access is to be through Poly Office and adjacent to Observation Room. Polygraph Exam Room shall be in the secured suspect area.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling and ventilation and accommodate special requirements sound attenuation for polygraph functions
Electrical	Provide 120V duplex receptacles
Lighting:	Day lighting is not allowed. Provide indirect recessed fluorescent lighting fixtures. A person taking the exam shall not be disturbed by looking up into direct lighting. Do not provide occupancy sensors. Lighting shall be designed to accommodate function of one way mirror
Communications:	Do not provide telephone or data.
FF&E:	Provide seating for two(solid wood chairs with legs and one desk or table (30" x 60"), metal with plastic laminate top. Chairs must not have upholstery or castors to eliminate possibility of sound. The room shall have vandal proof wall or ceiling mounted audio/video
Finishes:	Antistatic Broadloom carpet, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.
Other Requirements:	Provide one way mirror from Observation Room. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6

2D.5 SPECIAL USE AREAS, Cont'd.

2D.5.4 Observation Room:	Provide a closed area between visitor waiting and Polygraph Exam Room for observation of suspects into each area. Provide visibility through one way mirrors. The room must have special construction for sound attenuation. There should be a continuous plastic laminate ledge under each window. Windows should be a minimum of 42" above the finished floor as most of the viewing will be done while standing or on a stool. There should be space for audio/video equipment and other equipment as well. Operation is 24/7.
Occupancy:	2
Adjacency Requirements:	Poly Exam Room. The room should be accessible from corridor entry into Polygraph area.
Space Requirement:	Minimum 80 SF
Mechanical:	Space shall provide heating, cooling and ventilation. Special considerations will be required for sound attenuation for both supply and return systems
Electrical	Provide 120V duplex receptacles.
Lighting:	Day lighting is not allowed. Provide recessed fluorescent lighting fixtures. Do not provide occupancy sensors.
Communications:	Do not provide telephone or data.
FF&E:	Though persons are expected to stand during observation, provide two each wood straight leg stools without upholstery or castors so as to reduce any movement or noise which could affect the results of the tests.
Finishes:	Broadloom carpet, resilient base, painted GWB walls & suspended acoustic ceiling grid/tile system.
Other Requirements:	Observation Room must be located away from distracting noises such as street and office traffic or telephones Observation Room should be in a secured suspect area. Provide one way mirror from Observation Room into Polygraph Exam Room. Special construction is required for sound attenuation. Comply with Department of Army Polygraph activities Regulation AR195-6.

2D.5 SPECIAL USE AREAS, Cont'd**2D.5.5 Evidence Processing / Evidence Custodian**

All evidence that is brought into the CIDC must be processed. The agent will collect, label and prepare as required for handling by the evidence custodian. Operation is 24/7. Space shall be provided for a drying machine, a fuming machine and layout space for other equipment. The evidence processing agent will only use this room to perform the specialized tasks.

Occupancy 1

Adjacency Requirements: Evidence Depository.

Space Requirement: See Appendix, Floor Plans

Mechanical: Provide heating, cooling and ventilation

Electrical: Provide 120V duplex receptacles

Lighting: Day lighting is not desirable, and shall be controlled when used. Provide recessed fluorescent lighting fixtures with occupancy sensors.

Communications: Provide telephone and data connections.

Finishes: Resilient floor, rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system.

FF&E: Provide one desk with return with lockable pedestals. Provide two desk chairs, a guest chair and a layout table (minimum 30" x 60").

Other requirements: Accommodate space and power for drying chamber and super glue fuming machines. This equipment shall have integral ventilation system. Comply with 'Evidence Procedures' Army Regulation 195-5.

2D.5.6 Evidence Depository: A secure room for the storage of evidence. Room shall be equipped with steel evidence storage lockers. Provide special arms lockers, refrigerated storage lockers and heavy duty open and closed shelves to store evidence. The Operation is 24/7.

Adjacency Requirements: Evidence Processing

Space Requirement: See Floor Plans.

2D.5 SPECIAL USE AREAS Cont'd

Mechanical:	Provide separate heating, cooling and ventilation
Electrical:	Provide 120V duplex power receptacles. Provide electrical for refrigerated storage lockers.
Lighting:	Day lighting is not allowed. Provide fluorescent lighting with occupancy sensor.
Communications:	Provide telephone and data connections.
FF&E:	Metal evidence storage lockers, refrigerated lockers, gun lockers, and heavy duty open and closed shelving. Quantity and type of lockers to be determined by the facility.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system
Other requirements:	Only one entry is allowed into the depository and there must be one opening with two consecutive doors. One door is to be of steel construction and one door to be of steel or wood construction. Special hardware and an intrusion detection system are required. Comply with 'Evidence Procedures' Army Regulation 195-5.

2D.5 SPECIAL USE AREAS, Cont'd.

2D.5.7 Arms Vault:	Provide a secure vault for the storage of arms and ammunition.
Function:	Secure storage of weapons
Adjacency Requirements:	Table of Organization and Equipment (TOE) and Storage.
Space Requirement:	Minimum 100 SF
Mechanical:	Provide heating, cooling, dehumidification and ventilation.
Electrical:	Provide 120V duplex receptacle and electrical infrastructure for intrusion detection system.
Lighting:	Day lighting is not allowed. Provide fluorescent lighting with occupancy sensors.
Communications:	Provide empty conduit with pull string for government installed intrusions detection system.
FF&E:	Provide gun racks, shelving and clearing barrel. The quantity and type to be determined by the facility.
Equipment:	Intrusion detection system
Finishes:	Sealed concrete floor and epoxy painted CMU walls and concrete ceiling.
Other Requirements:	Provide GSA approved Class 5 vault door (w/ day gate). Walls and ceiling of Vault shall be reinforced concrete masonry or concrete. Floor shall be reinforced concrete. Rack anchor rings shall be provided. Comply with AR 190-11 Physical Security of Arms, Ammunition and Explosives.
2D.5.8 Duty Office:	This office shall be used by the agent on duty to stand watch and control access to the facility. The Operation is 24/7.
Adjacency Requirements:	Adjacent to Visitor Waiting.
Space Requirement:	See Floor Plans.
Mechanical:	Provide separate heating, cooling and ventilation
Electrical:	Provide 120V duplex power receptacles.
Lighting:	Provide fluorescent lighting with occupancy sensor.

2D.5 SPECIAL USE AREAS, Cont'd.

Communications:	Provide telephone and data connections.
FF&E:	Provide a desk with return, metal with plastic laminate top, one desk chair and one guest chair. Also include a four drawer lateral file cabinet with a lock for each drawer (for temporary evidence storage) and a four shelf open bookcase.
Finishes:	Resilient floor and rubber base, painted GWB walls and suspended acoustic ceiling grid/tile system

2D.5.9 TABLE OF ORGANIZATION & EQUIPMENT (TOE) Storage:

The TOE is intended to store a variety of materials and equipment. Provide industrial grade double doors to the exterior. Items may include traffic gear, medical equipment, kits for hostage situations, kits for biological events. Some items may have to be stored in wire cages with locks which will also be inside the TOE. The agents will go to the TOE and gather the appropriate 'equipment to go box' before leaving the facility and return the equipment to the TOE upon their return.

There should be a burn barrel outside the TOE so the Agents may discard munitions upon their return.

Function:	Storage
Adjacency Requirements:	Adjacent to the COF and the Arms Vault.
Space Requirement:	See Floor Plans
Mechanical:	Provide heating, cooling and ventilation.
Electrical:	Provide 120V duplex receptacle.
Lighting:	Day lighting (other than double doors) is not allowed. Provide ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards.
Communications:	Provide wall mounted telephone.
FF&E:	Heavy duty industrial open rack shelving 24" D and 30" D, minimum 20 lineal feet.
Finishes:	Sealed concrete floors and epoxy painted CMU walls.

Room Adjacency Matrix -Battalion Headquarters

	Support Areas	Lavatories	Showers	Janitor	Mech / Elec	TR	Administrative Areas	Visitor Waiting	Break / Multi-purpose Lounge	Central Files	Message Center	Classroom & Storage	Special Use Areas	Poly Office	Poly Exam	Observation Room	Evidence Processing/Custodian	Evidence Depository	Personnel Areas	Command Suite	S1 Personnel	S-2 / S-3 Personnel	S-2 / S-3 Support	S-4 Personnel & Support	S-6 Personnel & Support	COF Personnel	COF Support	Other	Duty Office	CBRN Office	Remarks	
Support Areas																																
Lavatories			1	2	3																										Directly adjacent to lobby, but separated w/door	
Showers		1		2	3																											
Janitor		1	3		2	4																										
Mech / Elec		1				2																									At rear of Building, w/ access to exterior	
TR		2	3	4	1																										Each TR to support half of Building	
Administrative Areas																																
Visitor Waiting								3		3										2											1	
Break / Multi-purpose Lounge							3			4	1																				2	
Central Files																																
Message Center								2																							1	
Classroom & Storage							3	1																							2	
Special Use Areas																																
Poly Office														1	1	2	2					3	4									
Poly Exam													1		1	2	2					3	4									
Observation Room													1	1		2	2					3	4									
Evidence Processing/Custodian														2	2	2		1				3	4									
Evidence Depository														2	2	2	1					3	4									
Personnel Areas																																
Command Suite							1			4										2	3										Similar to CEO of Corporation	
S1 Personnel										4									1				2	3							Similar to Human Resources	
S-2 / S-3 Personnel												2	2	2	2	2							1								Intelligence, Surveillance, Reconnaissance & Operations, Plans, Training	
S-2 / S-3 Support												2	2	2	2	2						1									S-2 / S-3 Storage, Secured Documents	
S-4 Personnel & Support																									1	2					Logistics, Transportation & Maintenance	
S-6 Personnel & Support																									1	2					Information Management	
COF Personnel																								2	2		1				Company Operations Facility	
COF Support																										1					Supply & TOE Storage	
Other																																
Duty Office							1	2		3	3																					
CBRN Office														3	3	3	3	3				2									1	

1 Adjacent 2 On same corridor 3 Down the corridor 4 Same side/end of Bldg No Adjacency



P E R S P E C T I V E
USACE - CIDG BATALLION HQ BUILDING

2E.1 Vehicle Processing Building

2E.1.1 Vehicle Processing: A separate garage building for inspecting automobiles, trucks or other types of vehicles; and collecting and processing evidence. Provide insulated sectional overhead door and vehicle lift to accommodate standard type vehicles. Space is required on either side of the vehicle to remove doors, windshields, seats and/or other parts of the vehicle.

Function:	Inspect and disassemble vehicles. Doors, door panels, windows, seats and backs may have to be removed. Fuel and other oils may be drained. Agents will investigate every part of a vehicle for evidence including but not limited to finger prints, drugs and/or weapons
Adjacency Requirements:	As shown on typical site plan
Space Requirement:	There shall be space for circulation around the vehicles under when they are up on the lift.
Mechanical:	Provide heating, cooling, ventilation and exhaust for fuel odors.
Plumbing:	Provide an industrial grade deep double sink with faucets
Electrical/Lighting:	Provide GFCI convenience power receptacles.
Lighting:	Day lighting (other than glazing in personnel door) is not allowed. Provide ceiling hung industrial linear fluorescent fixtures with the appropriate lamp guards. Also provide industrial linear fluorescent fixtures with appropriate lamp guards on the walls on each side of the lift area for lighting on the side of the cars and under the cars when on lift.
Communications:	Provide wall mounted telephone connections
FF&E:	Provide for 2 stainless steel work tables/benches 2 stools, weapons cleaning equipment and 2 standing type tool boxes
Finishes:	Sealed concrete floor, epoxy painted CMU walls

2E.1 Vehicle Processing Building, Cont'd

Other requirements:

Provide upper and lower industrial grade metal cabinets with drawers for storage of tools, chemicals and other investigative equipment along one wall. Provide stainless steel counter top with backsplash. Counter shall have two knee hole openings for industrial grade stools. Provide static dissipative rubber mats in front of metal storage and work surface area. Personnel door should have a window and requires the same entry requirements as the main building. Garage door shall be secured from the inside.

CHAPTER 3

FACILITY DESIGN

3.1. SITE PLANNING AND CIVIL ENGINEERING

3.1.1. Site Planning Objective

Provide a functional layout of buildings and site elements. Arrange vehicular circulation to minimize conflict with pedestrian circulation. Pavement marking and signage shall clearly delineate traffic patterns, especially important to first time visitors at the site. Integrate sustainable design principles by retaining and using existing topography to advantage; preserve environmentally sensitive areas and reduce overall project impact on the site.

3.1.2. Site Selection

The location of the facility shall be integrated with the Installation Master Plan and be consistent with the approved Land Use Plan and Army Installation Design Standards. It shall be located in an accessible area based on the use of the facility. Consider requirements for future expansion. Use sustainable planning and design principles to take advantage of passive energy. Site planning is an essential aspect of the facility design. The art of site planning requires the interdisciplinary involvement of the community planner, architect, landscape architect, civil, mechanical, electrical, and communication engineers. The CIDC Field Operations building should be located on the military installation it serves, in an area accessible to the public and adjacent to other cantonment area facilities (it is not anticipated that an off-base leased space would meet the mission requirements). The public entrance should be easily identified from the primary street; location on a corner lot may allow easier access to the government vehicle parking area and dumpster/equipment areas, but a corner lot location is not required. The fenced government vehicle parking shall not be located between the building and the primary street. The CIDC Battalion HQ building requires less public accessibility; it shall be located on the installation, and its location should be coordinated with other Brigade/Battalion facilities, personnel housing and dining facilities. Due to the security requirements and nature of the operation (the need for a secure area within which to escort suspects, and storing evidence vehicles), the secure government vehicle parking area shown at the rear of each CIDC building cannot be shared with other uses. Staff parking and visitor parking areas should be separated as indicated on the schematic site plans. Consider providing landscaping or other screening between incompatible land uses. Design and construction shall be compliant with applicable technical criteria codes and standards.

3.1.3. Schematic Site Plans

Schematic site plans for each of the four prototype buildings are included in Chapter 2. The schematic plans indicate general quantities and relationships of visitor parking, staff parking and secure government vehicle parking, as well as anti-terrorism/force protection (ATFP) setbacks and unobstructed zones around the building. The site designer for the CIDC facility shall establish the required setbacks and unobstructed zones based on UFC 4-010-01.

3.1.4. Parking and Vehicular Circulation

Site the facility so it is clearly visible to pedestrians, cars and delivery vehicles. Separate visitor parking, staff parking and secure government parking areas as shown on the schematic site plans included in Chapter 2 of this document. Control vehicular access in accordance with UFC 4-010-01 requirements. Comply with UFC 3-210-02 Privately Owned Vehicles (POV) Site Circulation and Parking and other applicable codes and standards. Coordinate parking and vehicular circulation with ATFP standards. During the site selection process, the installation should consider conducting a site traffic impact study to determine the traffic patterns and impact on the local roads and circulation patterns. Access requirements for fire equipment, trash/recycling removal, and service vehicles on site must be considered. Fire department access requirements shall comply with Section 2-10 of UFC 3-600-01, and the requirements of the local fire department. Design entrance and exit drives for safe circulation and to control unauthorized traffic. Consider pavement maintenance and snow removal (if applicable) in the design. Consider the use of alternate materials such as turf (open-grid) pavers for service vehicle access to mechanical rooms. The schematic site plans indicate the user's required quantity of staff parking spaces for each building prototype, and a baseline quantity of visitor parking spaces; all POV parking requirements shall be verified with the user and quantities adjusted to reflect the actual requirements of the particular facility/Installation. Although the schematic site plans for each building prototype indicate a number of standard 9-foot wide spaces for government sedans, and a number of 12-foot wide spaces for parking of government HMMVs, trucks and trailers, the planning/RFP development team shall obtain from the user, and include in the RFP, the type, size, loading characteristics and quantity of vehicles for which the secure government vehicle parking area will be designed. Provide handicap parking spaces at visitor and staff parking areas. Locate the trash dumpster and recycling dumpster pads outside the required ATFP setbacks, and within easy access of trash pickup vehicles.

3.1.5. Grading and Drainage

The grading should maintain existing topography while recognizing standard gradients. There should be a balance of the quantity of cut and fill soils which would create a smooth transition of graded areas into the existing natural site. The plan should reflect selective site clearing that preserves groups of trees. Grading should manage site runoff to maintain rate of flow and quantity to pre-construction levels, or reduce site runoff where possible. The principles of positive drainage should be applied to control the conditions that remove rainfall away from facilities and functions. Site design should seek to minimize the disturbance of land, and utilize natural drainage paths where possible. Federal, state and local regulations regarding the design of storm water management systems shall establish minimum design criteria. Coordinate requirements for downspouts, underground and surface drainage with the installation. Limit sheet drainage in pedestrian and parking areas.

3.1.6. Utilities

Consider the location and adequacy of existing utilities and their connection points when making the site selection and building orientation. The required services may include water, sewer, storm water, electricity, telephone, secure communications, cable television, fiber optics, possibly gas or steam lines, emergency generator, or satellite antennas.

3.1.7. Stormwater Management Systems

The storm drainage system shall be properly coordinated with surrounding properties to ensure that runoff does not cause damage to other properties. Design storm water management systems in accordance with the applicable state agency requirements. Coordinate requirements for an on-site storm water retention/detention system based on the requirements of the Installation. Connection to building roof rain leaders (as required by the installation) or area drain lines shall be constructed in accordance with the International Building Code.

3.1.8. Outdoor Furnishings

Coordinate requirements for outdoor and outdoor break areas and site furnishings with user needs. Where climate is acceptable, and when requested by the user, consider providing outdoor break areas in the site design. If to be provided, outdoor break areas with furnishings and/or shade structures must be addressed in the DD1391 document prepared for the facility. Provide site furnishings such as trash and recycling receptacles, seating, bicycle racks and bollards in coordination with the approved Installation Design Guide for the installation on which the CIDC facility will be built, and in accordance with the user's requirements.

3.1.9. Signage

Design site and building identification signage in coordination with vehicular and pedestrian approaches, landscaping and lighting. Comply with the approved Installation Design Guide and the Army Installation Design Standards. Provide traffic control signage as well as "No Parking" signs at service drives. Provide informational signs to direct visitors to the public entrance.

3.1.10. Site Lighting

Site lighting is an integral part of the design. Comply with the requirements of the approved Installation Design Guide. Provide lighting to ensure safe movement through outdoor areas. Consider the color rendition of outdoor lighting. Use bollards or variations in lighting to articulate entrances. Design lighting levels in accordance with the *Illuminating Engineering Society (IES) Lighting Handbook* illumination levels. Use photocells and timers to control lighting and conserve energy.

3.1.11. Site Fencing

Provide an 8 foot high security fence around the secure government vehicle parking area. Coordinate fence material with the approved Installation Design Guide; minimum requirement is galvanized chain link fence fabric, without barbed wire top. Provide sliding motor-operated vehicle gate with access control. Coordinate fire department access requirements with Base Fire Marshal. Coordinate gate access controls with user. Minimum requirement is for the gate to be operated by card or keypad/cipher lock access; coordinate any remote actuation, intercom, or camera surveillance requirements of the gate with the using activity. Provide an 8 foot high security fence with swing gates secured by padlock, around the impound vehicle parking area within the secure government parking area. Refer to: <https://pdc.usace.army.mil/library/drawings/fence> , for chain link fence details.

3.2. LANDSCAPE DESIGN

3.2.1. Landscaping

Coordinate the landscape design with ATFP and Installation requirements. Preserve natural landscape features including existing topography, trees, and vegetation to the extent practicable. Provide windbreaks and shading where appropriate. Consider earth berms to screen parking and roadways; coordinate berm slopes with mowing and maintenance requirements. Screen service area and outdoor equipment. Shade parking areas to reduce heat developed by exposed pavement. Landscaping shall be in accordance with requirements of the Installation. Where appropriate, provide a variety of plants with seasonal change, color, texture, fragrance, and interpretive value. Use local, durable, native species to help ensure survivability; the use of native plants will also minimize the requirement for chemical pesticides, herbicides and irrigation. Choose plant materials on the basis of plant hardiness, climate, soil conditions, low maintenance, and quality. Selected plant materials shall be easily maintained and tolerant of the specific site conditions. Incorporate sustainable design principles into the selection of plants. Planting or seeding shall occur only during periods when beneficial results can be obtained. Plant varieties shall be nursery grown or plantation grown stock. They shall be grown under climatic conditions similar to those in the locality of the project.

3.2.2. Soil Test

A soil test shall be performed for pH, chemical analysis, and mechanical analysis to establish the quantities and type of soil amendments required to meet local growing conditions for the type and variety of plant material specified.

3.2.3. Landscape Irrigation System

Provide an irrigation system only where specifically required by the Installation. Coordinate with LEED requirements. Where automatic sprinkler systems are used, provide hydrometer control to prevent inappropriate watering. Investigate and employ methods of irrigation based on sustainable design principles, where practical and feasible.

3.3. GEOTECHNICAL

3.3.1. Geotechnical Design

Geotechnical information shall be considered during the planning of the project. Where confident assumptions may be made based on past projects in the area, the geotechnical investigation may take place during the design phase. The geotechnical information is to consider loads from the structure, pavement, walkways, and vehicles. It shall assess the sub-surface condition determining soil type, density, and moisture content. Where significant debris is expected to exist on site, excavations shall be performed.

3.3.2. Radon Testing

Test shall be performed for potential radon exposure to occupants in accordance with applicable requirements.

3.4. STRUCTURAL

3.4.1. Structural System

The single-story, sloped roof building shall have a structural system that allows flexibility for interior configuration. Comply with applicable codes and standards, and employ building materials and construction methods that are easy to obtain in the region. Steel framed structure is preferred. Prefabricated metal building with tapered columns shall be avoided.

3.4.2. Structural Loads

Design criteria shall conform to applicable criteria, codes and standards.

3.4.3. ATFP

Comply with UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings. The CIDC facility is normally located inside a “controlled perimeter”. The facility shall be classified as “primary gathering” or “inhabited” structure, based on the UFC criteria. The site layout shall incorporate the applicable standoff distance for roadways and parking lots. Structural hardening of the building is not anticipated based on current ATFP criteria.

3.5. ARCHITECTURE

3.5.1. Design Standards and Codes

The design shall be in accordance with the current version of the Unified Facilities Criteria UFC 1-200-01 Design: General Building Requirements and other applicable criteria, codes and standards.

3.5.2. Goals and Objectives

Overall architectural goals for the facility are to provide a functional, visually appealing facility that is a source of pride for facility users, and the installation, and which meets the functional requirements of the CIDC mission. Provide architecturally compatible design consistent with the Installation's architectural theme.

3.5.2.1. Exterior Design Objectives

Design buildings to enhance the visual environment of the installation. Exterior materials, roof forms, and detailing shall comply with the approved Installation Design Guide and shall be compatible with the local context. Use durable, low-maintenance materials. Configure building massing and use exterior elements such as entry focal points and material detailing to provide human scale. Exterior materials and roof forms of the Vehicle Processing Building shall match the main building.

3.5.2.2. Interior Design Objectives

Use durable materials and furnishings that can be easily maintained and replaced. Use interior surfaces that are medium toned; avoid trendy or bright color schemes. Refer to the prototypical building design documentation for suggested regional-based interior color

schemes for the facility.

3.5.3. Material and Product Selection Criteria

Materials shall meet the applicable functional and aesthetic requirements of the CIDC mission. The material selections indicated in these standards establish a minimum quality level.

3.5.4. Exterior Design

3.5.4.1. Entrances

Building entrances shall be readily identifiable and sheltered from harsh weather. Materials, such as flooring, storefront, hardware, etc., shall be exceptionally durable for high use. Entrances shall be accessible to handicapped. Entrances should offer a transparency for recognizing activity in the building. Service entrances shall be screened. Consider alarming egress doors that are not desirable for building access.

3.5.4.2. Building Systems

Consider efficient yet durable building systems that allow flexibility. Interior load bearing partitions often deter future re-design for changing needs.

3.5.4.3. Windows

Windows shall comply with the requirements of UFC 4-010-01 Design: Minimum Antiterrorism Standards for Buildings. Window blinds may be provided to control glare and for privacy, however, blinds are not an effective method of controlling sunlight under the applicable sustainable design criteria. Consider use of exterior shading devices, light shelves and other means of controlling daylight.

3.5.4.4. Signage

Comply with the Installation Design Guide for interior and exterior signage. Provide additional site signage for handicapped accessible parking and traffic control.

3.5.4.5. Roof

Comply with applicable codes and standards and the Installation Design Guide. Sloped architectural standing seam metal roofing roof with a minimum 3:12 pitch is the preferred roof at most installations.

3.5.5. Interior Design

Interior design shall consider creation of spaces, circulation, building functions and finish design. Finish materials are identified on each Room Criteria Sheet. Finishes shall be durable throughout; provide increased durability by use of impact-resistant gypsum wall board up to four feet above finish floor corridors, suspect waiting areas, storage rooms, and visitor waiting areas. The interior design shall be in accordance with the current versions of the Unified Facilities Criteria 3-600-01 Design: Fire Protection Engineering for Facilities, and

where applicable, the International Building Code and the National Fire Protection Association (NFPA) Codes and Standards.

3.5.5.1. Floors

Consider the requirements for durability in areas that will receive more traffic and areas that have high abuse. Porcelain tile is identified for traffic areas but other durable products such as terrazzo may be considered. Consider using a waterproofing membrane and mortar bed for thick set tile materials. Carpet may be used in offices and corridors. Vinyl tile shall be used in break/multi-purpose rooms, Evidence Processing, Evidence Depository, Photo ID, Where carpet is used, provide broadloom in a multi-color pattern. Carpet static control shall be provided to permanently control static buildup to less than 3.5 kv when tested at 20% relative humidity and 70 degrees F in accordance with AA TCC 134. In communications and computer rooms provide non-static resilient flooring. Provide recessed entry mat (walk-off mat) systems at building entrances.

3.5.5.2. Interior Walls and Partitions

Painted gypsum board or plaster shall be the standard wall finish. Concrete or concrete masonry walls are required at spaces such as Arms Vault and evidence-related rooms. Metal studs for interior partitions shall not be lighter than 20 ga. Provide wall protection at chair rail height in corridors, Visitor Waiting, Interview Rooms and Conference Rooms. Provide corner guards at all locations receiving wall protection.

3.5.5.3. Ceilings and Ceiling Heights

Where acoustic tile is used, gypsum board or plaster may be incorporated to add interest such as bulkheads, soffits or other patterns. In acoustically rated spaces the wall/partition shall penetrate the ceiling. The acoustic rating shall include the entire envelope, therefore requiring partitions to extend to the structure above or treatment of the ceiling to prevent sound from transmitting over the partition. Finished ceiling heights shall be 9'-0" unless otherwise noted.

3.5.5.4. Interior Doors and Frames

Provide hollow metal frames and solid core wood stain grade doors generally. Hollow metal doors are acceptable at service areas. Where equipment will be moved in and out often, consider double doors.

3.5.5.5. Door Finish Hardware

Card access is justified to track access. Security locks are required for Arms Vault, Evidence Processing, Evidence Custodian and Evidence Depository.

3.5.5.6. Signage

Provide interior room identification signage for all rooms. Provide gloss or matte finish plaques with slots in base laminate for insertion of changeable message strips. Classroom and conference room signage shall have an "In Use" feature. Provide a building directory at the public entrance.

3.5.5.7. Vehicle Lift

Provide mobile column hydraulic vehicle lift in Vehicle Processing Building. Coordinate capacity of lift with the largest vehicle anticipated by user to be processed.

3.5.5.8. Acoustic Design

Designers and planners must consider environmental as well as functional noise when locating and designing instruction facilities. Where possible avoid background noise from traffic, airfields, outdoor activities and mechanical equipment. Work within the building to acoustically separate classrooms, offices and meeting spaces from lounges, mechanical equipment, restrooms, etc. Extend acoustically rated partitions to the horizontal acoustic element such as the roof deck or floor slab above (acoustic ceilings do not effectively stop sound transmission over partitions). Separate and seal penetrations in rated partitions. Locate mechanical equipment in less sensitive areas such as over corridors. Use low noise ballasts in light fixtures.

3.6. FIRE PROTECTION

3.6.1. Design Standards and Codes

The fire protection design for all facilities shall be in accordance with the current versions of the Unified Facilities Criteria 3-600-01 Fire Protection Engineering for Facilities, and where applicable, the International Building Code and the referenced National Fire Protection Association (NFPA) Codes and Standards.

3.6.2. Building Occupancy

The CIDC prototype building is classified as a Business Occupancy (Group B). The Vehicle Processing Building is considered a Storage Occupancy – Moderate Hazard (Group S-1; Motor vehicle repair garages complying with the maximum allowable quantities of hazardous materials).

3.6.3. Building Construction

Based on building size, construction type is anticipated be Type IIB (Non-combustible, Unprotected) as defined by the International Building Code. The Vehicle Processing Building will also be constructed as Type IIB. (Non-combustible, Unprotected). Based on a minimum separation of 20 ft., the exterior walls of both buildings will not require a fire rating; although, the designer shall verify that the exterior walls of the Vehicle Processing Building will not require fire rating based on actual distance from adjacent property line or existing structures.

Based on current applicable code criteria, building corridors will be non-fire-rated; and hazardous areas (i.e. storage rooms, etc.) will be enclosed with smoke partitions.

3.6.4. Sprinkler System

Provide a wet pipe sprinkler system in each structure as required by the project. Design shall be provided by a qualified Fire Protection Engineer as defined in UFC 3-600-01 and

shall be in compliance with UFC 3-600-01 and NFPA 13: Standard for the Installation of Sprinkler Systems. Covered loading docks shall be fully protected by a dry sidewall sprinklers or a dry-pipe sprinkler system. All sprinklers should be quick response type.

3.6.5. Hydrant Flow Data

A hydrant flow test shall be performed in the early stages of design indicating Date and Location of Test, Static Pressure, Flow, and Residual Pressure. Coordinate fire hydrant flow test with local water authority. Provide hydraulic calculations to determine whether there is sufficient water supply and pressure to meet the flow demands of the sprinkler systems within the facility and the fire department hose stream requirements from the fire hydrants.

3.6.6. Fire Hydrants

Fire Hydrants shall be provided and spaced such that all parts of the building exterior must be within 350 ft of a hydrant with consideration given to accessibility and obstructions. In addition, at least one hydrant must be located within 150 ft of the fire department connection. Coordinate Fire Hydrant specifications and spacing requirements with local water utility and local fire department.

3.6.7. Fire Department Access

All buildings greater than 5,000 sq ft, or more than two stories in height must have at least one means of all-weather ground access to allow emergency vehicles unimpeded access to the building. The paved all-weather ground access must start from the road and terminate no farther than 33 ft from the building. Any force protection equipment, such as bollards or gates, must not require more than one person to remove or open and any locking device controlling vehicle access must be under control of the Fire Department or 24-hour security personnel located at the specific facility. Dimensions of fire lanes and turnarounds must comply with NFPA 1, Uniform Fire Code.

3.6.8. Fire Pump

It is unlikely that a fire pump will be required, however, should a pump be necessary, the pump shall be in accordance with Unified Facilities Criteria 3-600-01 - Fire Protection Engineering for Facilities. Provide electric driven fire pump and controllers in accordance with NFPA 20.

3.6.9. Fire Extinguishers and Cabinets

Provide portable fire extinguishers in accordance with NFPA 10. Provide bracket-mounted extinguishers in service areas. Provide semi-recessed aluminum fire extinguisher cabinets with clear view panel in public areas. Provide fire-rated cabinets in fire-rated wall assemblies.

3.6.10. Interior Wall and Ceiling Finishes

Wall and ceiling finishes and movable partitions shall conform to the requirements of NFPA 101.

3.6.11. Fire Alarm/Mass Notification System

Provide fire alarm system conforming to requirements of UFC 3-600-01 and NFPA 101 throughout each structure. Fire alarm system shall consist of pull stations, audio and visual devices, control/annunciation panel and tamper and/or flow connection/supervision to the sprinkler system. Provide supervision of fire pump where fire pump is provided. Fire alarm system shall tie into the base-wide system in accordance with base requirements. Installation of Fire alarm system shall be in accordance with NFPA 72.

A combined Fire Alarm/Mass Notification system is permitted in accordance with UFC 4-021-01, Mass Notification Systems. A voice evacuation system will be used for the audible notification appliances. The speakers used for the fire alarm voice evacuation system will also serve as the audible Mass Notification System. Clear lens strobe lights for "Fire" and amber lens strobe lights for "Mass Notification" will be provided for visual notification and must be installed in accordance with NFPA 72 and ADA guidelines.

Fire alarm and Mass notification systems must conform to the applicable base standards (i.e. transmitter frequency).

3.7. COMMISSIONING OF BUILDING ENERGY SYSTEMS

Energy-related building systems shall be commissioned in accordance with LEED requirements for both Fundamental Commissioning and Enhanced Commissioning. Energy and water resource related systems shall be tested in accordance with Chapter 10 of ASHRAE Standard 189.1.

Commissioning of building energy systems shall comply with the requirements of U.S. Army Corps of Engineers Engineering and Construction Bulletins 2011-1 and 2010-14.

Commissioning activities shall be completed for the following energy-related systems, at a minimum:

- Heating, ventilating, air conditioning, and refrigeration (HVAC) systems, both active and passive, and associated controls
- Lighting and daylighting controls
- Domestic hot water systems
- Renewable energy systems (wind, solar, etc)
- Building Envelope

3.8. MECHANICAL SYSTEMS

3.8.1. Design Standards and Codes.

The mechanical design for all CIDC facilities shall be in accordance with the current version

of the Unified Facilities Criteria (UFC) documents and all applicable codes and standards.

3.8.2. Facility Energy Conservation Requirements

Comply with ASHRAE 189.1 Chapter 7 Energy Efficiency using either the Prescription Option Section 7.4 or the Performance Option 7.5.

The building, including the building envelope, HVAC systems, service water heating, power, and lighting systems shall be designed to achieve a non-plug load energy consumption that is at least 40% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1. Plug loads shall be included in building energy modeling but shall be subtracted in the final calculation of energy performance.

3.8.3. HVAC Systems

3.8.3.1. Ventilation Air

Ventilation rates shall meet or exceed the minimum requirements of the International Mechanical Code, and the current ASHRAE Standard 62.1.

Consider providing filtered outdoor air to all occupied spaces at air volumes that are 30% above the minimum rates required by ASHRAE Standard 62.1.

Consider a Demand Controlled Ventilation system

Provide permanent equipment to measure the minimum outdoor air flow rate for each ventilation system, as required by ASHRAE 189.1

Comply with Indoor Environmental Quality requirements of ASHRAE 189.1.

Outdoor air intake louvers or grilles shall be placed at least 10 feet above finished grade to meet the requirements of UFC 4-010-01 Minimum Antiterrorism Standards for Buildings.

3.8.3.2. HVAC System Selection

Consider HVAC systems that include vertical self-contained air-handling units, located in the Mechanical Room, and an outdoor dry cooler or wet closed loop cooling tower, located on grade. Evaluate the outdoor environmental and climate conditions to determine if a dry cooler or a wet cooling tower should be selected.

Consider a four-pipe fan coil system for space heating and cooling.

Consider 'Economizer Cooling'. An air-side economizer uses filtered outdoor air for cooling during a part of the year. A water-side economizer uses fluid from the cooling tower or dry cooler for cooling directly, without the use of a refrigeration cycle.

Avoid selecting HVAC systems which require simultaneously heating and cooling; consider waste energy (waste heat) recovery systems.

Chlorofluorocarbon (CFC) based refrigerants shall not be used in HVAC and refrigeration systems.

Recognize the STC ratings required within the facility, and design the HVAC system so that these sound ratings are not compromised.

3.8.3.3. Space Heating

Consider a space heating system that includes natural gas hot water condensing boilers, located in the Mechanical Room.

3.8.3.4. HVAC System Water Use

Cooling towers, if provided, shall be equipped with efficient draft eliminators in compliance with ASHRAE 189.1.

3.8.3.5. HVAC System Zoning

The Evidence Processing, Evidence Custodian, and Evidence Depository areas of the CIDC buildings shall be provided with a separate HVAC system.

3.8.3.6. Telecommunications and SIPRNet Rooms

Provide an independent and dedicated air-handling system for Telecommunications and SIPRNet rooms. These systems shall not be located on the floor of the actual space served. These rooms shall be conditioned 24 hours per day, 7 days per week to a temperature of 72 degrees F (dry bulb) and to a relative humidity of 50%. Estimated equipment heat dissipation is 1,800 BTU per hour. Verify equipment heat dissipation during design.

3.8.3.7. Arms Vault

Provide a dehumidifier for this space, located outside of the caged area of the vault. Consider placing the dehumidifier on a shelf near the ceiling to prevent damage caused by movement of weapons within the vault.

3.8.4. Vehicle Processing Building HVAC Systems

3.8.4.1. Ventilation Air

Ventilation rates shall meet or exceed the minimum requirements of the International Mechanical Code, and the current version of ASHRAE Standard 62.1.

Provide permanent equipment to measure the minimum outdoor air flow rate for each ventilation system, as required by ASHRAE 189.1

Exhaust rates shall be in accordance with the current edition of the International Mechanical Code and the current edition of ASHRAE Standard 62.1.

3.8.4.2. HVAC Design Conditions

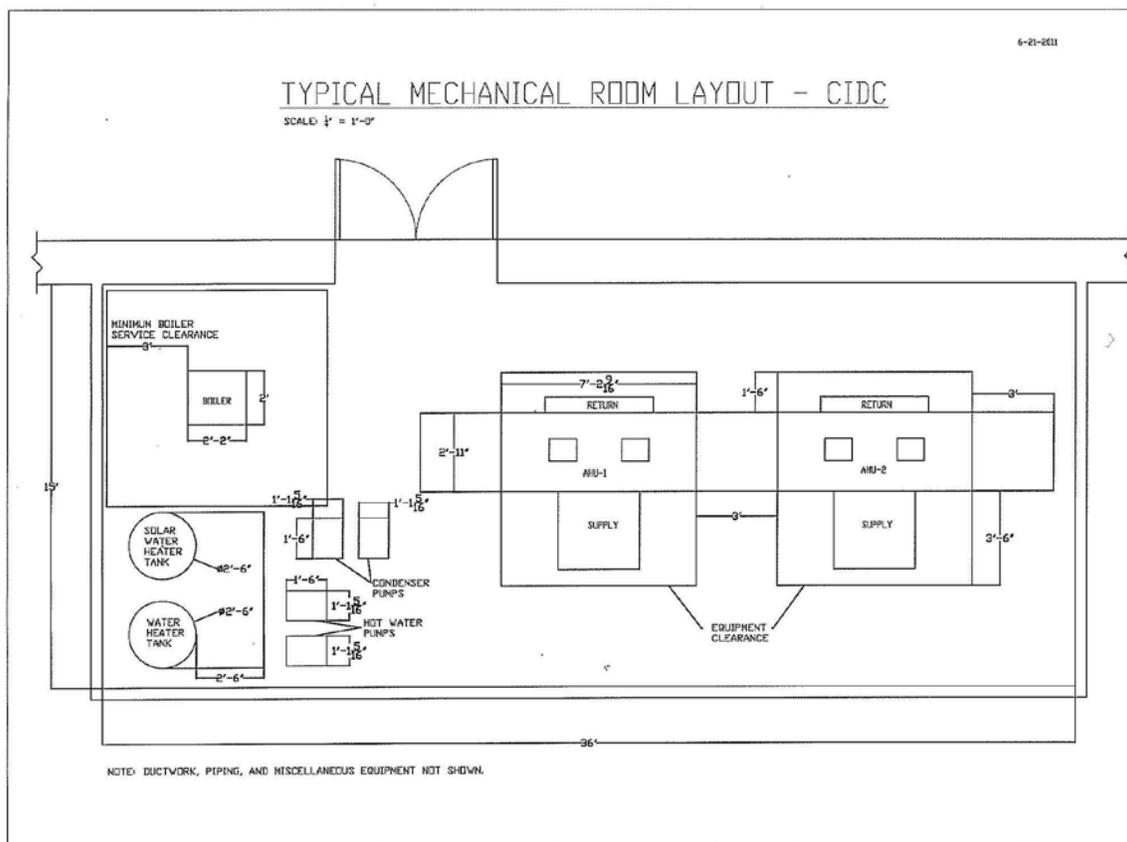
For heating, the indoor design temperature shall be 60 F db. For cooling, the indoor design conditions shall be 80 F db and 60% relative humidity.

3.8.4.3. HVAC System Selection

Consider a radiant heating system for space heating.

3.8.5. Mechanical Rooms

Mechanical rooms shall be provided with both combustible gas detectors and carbon monoxide detectors when appropriate. The mechanical room shall have outdoor access so that maintenance personnel do not need to enter the secure areas of the building to service the main air conditioning unit or pumps. Provide space within the Mechanical Room for the future installation of on-site renewable energy systems. Provide chase space through the building for these future systems. A schematic equipment layout for a typical CIDC mechanical room is shown below:



3.9. DIRECT DIGITAL CONTROL SYSTEM.

3.9.1. System Requirements

Provide a building automation system consisting of a building control network, and integrate the building network into the existing base-wide EMCS/UMSC (if present).

The building control network shall be a single complete non-proprietary Direct Digital Control (DDC) system for control of the heating, ventilating, and air conditioning (HVAC) systems and other systems. The building control network shall be an Open implementation of LonWorks@ technologies using ANSI/EIA 709.1 B as the only communications protocol and use only LonMark Standard Network Variable Types (SNVTs), as defined in the LonMark@ Resource files, for communication between DDC hardware devices to allow multi-vendor interoperability.

The building control network shall be an Open system. The system shall be designed and installed so that the Government, or its agents, are able to repair, replace, upgrade, and expand the system without dependence on the original control network contractor.

3.9.2. Emergency Shut-down

Provide an air distribution system emergency shutoff switch as required under UFC 4-010-01.

3.10. PLUMBING SYSTEMS

3.10.1. Design Standards and Codes.

The plumbing design for all CIDC facilities shall be in accordance with the current version of the Unified Facilities Criteria (UFC) documents and all applicable codes and standards, including the ABA Accessibility Standards for Federal Facilities, LEED – NC for New Construction Reference Guide Version 3.0, and ASHRAE 189.1-2009 Standard for the Design of High-Performance Green Buildings.

3.10.2. Building Water Use Reduction

Low-flow plumbing fixtures shall be used to maximize water efficiency. Public metering self-closing faucets shall use a maximum of 0.25 gallons per metering cycle. Public lavatory faucets shall have a maximum flow rate of 0.5 GPM. Single flush water closets shall have a maximum flush volume of 1.28 gallon; dual flush water closets shall have an effective flush volume of 1.28 gallons; and urinals shall have a maximum flush volume of 0.5 gallons.

3.10.3. Domestic Water Heating

Consider an active or passive solar water heating system to meet part or the entire domestic hot water load.

Consider instantaneous natural gas-fired water heaters, in place of a combination hot water heater and storage tank.

Emergency eye wash and shower shall be provided in accordance with OSHA 1910.

3.10.4. Vehicle Processing Building

Provide a continuous 6 inch wide trench drain with continuous grating at the inside of the overhead door; locate drain approximately 24 inches from the inside face of the door.

The domestic hot water system for this facility shall be separate from the main building. Consider an instantaneous domestic water heater.

An emergency eye wash shall be provided in accordance with OSHA 1910.

3.10.5. Metering

Smart Meters shall be used to monitor the energy and resource use of the facility. Smart Meters capture complex energy or resource use information and transmit this information on a real-time (or near real-time) basis.

3.10.6. Water Meters

Provide metering and sub metering of water use including separate metering of reclaimed, potable, and rain water systems.

3.10.7. Natural Gas Meter and Pressure Regulator

A gas meter and pressure regulator shall be provided when facilities utilize natural gas as an energy source. The gas meter shall be a 'Smart Meter' which reports to the Energy Management Control System.

3.11. ELECTRICAL

3.11.1. Design Standards and Codes.

The electrical design for all facilities shall be in accordance with the current editions of the National Electrical Code, the National Electrical Safety Code, UFC 3-520-01, and UFC 3-550-01. Lighting design shall conform to the Illuminating Engineers Society of North America (IESNA) Lighting Handbook and recommended practices Facility Energy Conservation Requirements. The entire facility design, including interior and exterior lighting and power systems shall be in compliance with ASHRAE 90.1.

3.11.2. Design Calculations.

Provide analysis throughout the design to document selection of equipment and wiring in accordance with UFC 3-520-01. Calculations as a minimum shall include load analysis, voltage drop, fault, device coordination, interior and exterior lighting levels.

3.11.3. Space Requirements.

Provide electrical space for all electrical equipment. Space shall provide clearances and working areas as required by the National Electrical Code. Coordinate location to consider factors such as ease of maintenance, proximity to loads being served, accessibility, and aesthetics.

3.11.4. Materials and Equipment.

All materials and equipment shall be the standard catalogued products of manufacturers regularly engaged in the production of such equipment and material, and shall be the manufacturer's latest design. All equipment and material shall conform to the requirements of American National Standards Institute (ANSI), American Society of Testing and Materials (ASTM), National Electrical Manufacturer's Association (NEMA), National Fire Protection Association (NFPA) or other national trade association as applicable. Where standards exist, materials and equipment shall bear the label and be listed by Underwriters Laboratories, Inc. (UL) or other recognized testing organization.

3.11.5. Lighting.

Interior lighting power densities shall comply with the IESNA guide lines, UFC 4-140-01 (Battalion headquarters), and with the requirements of ASHRAE 90.1-2004. Lighting shall be compatible with security cameras and security requirements. Interior ambient illumination shall provide a generally glare free, high quality lighting environment and conform to IESNA RP-1-04.

Where applicable, local manual controls shall supplement the automatic controls in offices and specialized areas, including conference rooms.

Occupancy sensors shall be provided, in accordance with UFC 3-530-01, in restrooms, electrical and mechanical rooms, telecommunication rooms and similar areas. Occupancy sensors shall not be provided in Suspect Toilet, Suspect Waiting, Polygraph Office, Polygraph Exam, or Observation Room. Interior lighting shall combine 2'x4' and 2'x2' fluorescent, cove lighting, direct and indirect recessed, direct and indirect recessed with parabolic lens, sconces, decorative, and exit fixtures. Dimming ballasts, where required, shall be capable of dimming to 5 percent. Lighting for video-teleconferencing and office spaces shall have special parabolic diffusers, which shall eliminate any effects on the screens or displays.

Emergency lighting shall be provided in accordance with NFPA 101 and the appropriate UFC, and shall consist of integral battery packs in general purpose fluorescent fixtures to provide the required light levels in the path of egress.

Exit signs shall utilize light-emitting diodes (LED) lamps to minimize energy consumption.

3.11.6. Power and Grounding.

Depending on the Jurisdiction, the medium voltage transformer serving the CIDC may be provided by the contractor or the electrical cooperative serving the base.

The secondary rating of the transformer will be 480Y/277 volt, three-phase four-wire, with a solidly grounded neutral. 600V secondary service conductors shall be installed in concrete

encased Type EB schedule 20 conduit and shall be provided and installed by the contractor to the buildings' main electrical service board. It is anticipated that there shall be only one service board. All conductors 600V and below shall be copper. A "smart meter" shall be utilized to measure and record the energy and its time-of-usage. The information from the "smart meter" shall be remotely accessible and capable of being transmitted automatically.

From 480Y/277V, the power shall be transformed down to 208Y/120V for general receptacle and service loads. In some cases, the voltage shall be transformed down to 120/240V for special technical loads. In some cases, the incoming service shall be 208Y/120V depending on the existing electrical service.

Provide an exterior waterproof receptacle, manual transfer switch, and distribution panel to connect to a temporary mobile generator. The generator shall not be included in the construction contract. The voltage and amperage shall be determined during the design process to address any mission essential emergency power needs.

3.11.6.1. Special Power Requirements.

Electrical power outlets for special power shall be coordinated with the requirements in Chapter 2, Space Design Criteria. Three-phase, four-wire wire, 480Y/277V power shall serve the facility unless analysis can demonstrate that 208Y/120V would be more economical. All lighting and large mechanical equipment shall utilize the 480Y/277V voltage when available. A main switchboard, located in a dedicated electrical room shall distribute the power throughout the facility. All switchboards and panelboards shall be fully rated to interrupt the available short circuit. Panelboard powered by the k-rated transformer shall have 200% rated neutrals.

Dry-type transformers shall step down the distribution voltage to 208Y/120V power for general purpose receptacles, electronic equipment and small mechanical loads. The main switchboard and all downstream panel boards shall be sized for 20 percent spare capacity, and shall include a combination of no fewer than 20 percent spare breakers and blank spaces.

Downstream panel boards shall be located in designated electrical closets and workshops throughout the building. Panel boards shall be located in either electrical rooms or an electrical closet. If a special case requires any panel board to be located outside of a closet, it shall be recess mounted and located as to limit the access to qualified personnel only. Transformers serving computers and workstations shall be k-rated to handle non-linear loads.

Power receptacles shall be provided per NFPA 70 and in conjunction with the proposed equipment and furniture layouts. Provide power, data and telecommunications connectivity to each workstation. A duplex power receptacle shall be accessibly located adjacent to each duplex voice/data and CATV outlet. At all levels of the power distribution system, there shall be 20 percent built-in spare circuit and load capacity. Power poles shall not be utilized. In areas such as conference rooms, floor-mounted recess power and telecomm receptacles shall be utilized.

Where applicable, individual unit Uninterruptible Power Systems (UPS) shall be provided, where required by the program. The systems shall have a minimum of five minutes capacity of full load to allow for orderly shutdown of critical loads. UPS equipment shall have

isolation/bypass capabilities for maintenance and shall utilize leak-proof maintenance-free sealed lead-acid batteries with suspended electrolyte.

Panel boards serving computers, SCIF and any other sensitive electronic equipment shall be provided with transient voltage surge suppression (TVSS) to protect against surges caused by excess voltage and/or current, and shall be of the isolated-ground type. TVSS devices shall be UL 1449 Second Edition listed. Total voltage and current harmonics shall comply with Facility Program Requirement and IEEE Harmonic Standard 519-1992. Grounding system shall comply with NFPA 70 National Electrical Code; Technical Criteria for the Installation Information Architecture, dated February 2010 (I3A Technical Criteria); and local codes and amendments.

Feeder conductors shall be sized for a maximum voltage drop of 2 percent at design load and branch conductors shall be sized for no more than 3 percent voltage drop at design load as mandated by ASHRAE 90.1-2004. All wiring shall be copper and installed in conduits. A separate grounding conductor shall be installed in all raceways. All circuits requiring neutrals shall contain 100% separate neutrals.

3.11.6.1.1. Special Lighting, Power and Telecommunications Requirements for Vehicle Processing Building.

The Vehicle Processing Building shall have a separate distribution power panel, fed from the main 208Y/120V distribution panel, to power lighting, receptacles, special equipment loads, and mechanical loads. The panel shall be recessed mounted inside of the building and contain a main circuit breaker. Lighting fixtures for the vehicle maintenance bay shall be wall mounted to illuminate sides and underside of vehicles on the vehicle lift. Provide two (2) phone and two (2) data lines to the Vehicle Processing Building.

3.11.6.2. Grounding.

A grounding system shall be provided and shall comply with the requirements of the NEC. The ground counterpoise shall be provided around the building perimeter and shall be utilized for grounding incoming service, building steel, telephone service, piping, lightning protection, and internal grounding requirements. Ground straps shall be provided where required by function and shall be connected to the building grounding system.

3.11.6.3. Lightning Protection.

Facilities shall be protected from lightning in accordance with NFPA 780 National Standard for the Installation of Lightning Protection Systems and all applicable UFC. A risk analysis using the appropriate calculations based on NFPA 780 National Standard for the Installation of Lightning Protection Systems and all applicable UFC shall be performed to determine what, if any, lightning protection is required.

3.12. COMMUNICATIONS

3.12.1. Information Systems.

Information systems shall consist of a complete end-to-end voice, data cable based

functional design accomplished in accordance with the I3A Technical Criteria. Information system equipment provided to satisfy the service requirements of this design shall meet the technical specifications and planning guidance found in ANSI/TIA/EIA-568-B and 569-A, as appropriate. Functional requirements shall be developed and implemented based upon the I3A Technical Criteria to satisfy both the near-term as well as the growth potential of the CIDC facility.

When two Telecommunication Rooms (TR) are required, size main TR at a minimum of 1.1% of serving area and secondary room at a minimum of 8' x 10'. Additional TR shall be provided and placed centrally to the area served. The TR placement shall ensure the serving areas do not exceed 10,000 square feet as stipulated in TIA/EIA-569-B, and linear footage from TR to outlet does not exceed 250 feet.

System provisions shall be compliant with the requirements of the Department of Defense (DOD) Standards for Accessibility, as directed for the facility.

All cable utilizing conduit in slab, including floor boxes to be evaluated and labeled for use in a 'wet location'.

Metallic separation is required between telecommunication and power wiring in power poles, under floor conduit and/or systems furniture raceway.

3.12.1.1. Telecommunications Systems.

The telecommunication system provided in this project shall meet all US Army I3A objectives using standard state-of-the-art equipment and installation practices. The telecommunication system provided with this facility shall receive dial tone from a US government controlled telephone switching system. Special requirements for telephone circuits receiving dial tone from other sources, i.e., pay-telephone, etc., shall be coordinated with installation's local commercial provider; refer to the installation Network Enterprise Center (NEC) for contact information. The telecommunications cross-connect for this project shall utilize a Category 6 110 RJ-45 termination panels as shown in the I3A Technical Criteria; this is not a "small facility" for cross-connect purposes. Coordinate minimum essential service requirements with the NEC; use these requirements in conjunction with the I3A Technical Criteria to develop the design based upon planned functional usage of the various spaces. Locate telephone outlets to satisfy an intelligent design based upon safety, courtesy, and convenience: as a minimum, wall telephone outlets shall be provided in all equipment rooms (electrical room, HVAC room, telecommunications room, CATV/CCTV/surveillance room, etc.); in all "break" areas and at all entry areas; and along corridors and hallways using a density of four wall telephones per 10,000 square feet of gross building space.

3.12.1.2. Data System.

Data jacks shall be terminated on Category 6 110 RJ-45 termination panels located on racks in the telecommunications rooms(s).

3.12.1.3. Wireless Technology.

The use of wireless technology for data transfer must be in accordance with Army Regulation 25-1 Army Information Management found at

http://www.army.mil/usapa/epubs/25_Series_Collection_1.html as well as the latest memorandum and letters regarding this quickly evolving issue.

3.12.2. Information System Equipment.

All equipment provided for the facility shall meet the functional standards found in the I3A Technical Criteria. The building's interior copper cabling shall be EIA/TIA 568B Category 6 RJ-45. Installation shall be in accordance with applicable UFGSSs.

3.12.3. Outside Cable Plant Infrastructure.

Extend the information system infrastructure from the nearest existing information system switch node having sufficient capacity to satisfy the facilities requirements -- coordinate with the Network Enterprise Center (NEC), (formerly 'DOIM') on the Installation. New underground conduits shall be multiple concrete encased 4-inch PVC ducts (or equivalent) and shall be sized, designed and installed in the underground manhole and duct system PDS in accordance with the Installation's current approved I3A Plan to ensure maximum flexibility for future growth. Place outside plant information systems cabling, both copper cable(s) and fiber optic cable(s), from the servicing nodes into the new facility; extend and terminate the information system cabling on the building's entrance facility per applicable fire and safety code

3.12.3.1. Premises Distribution System (PDS) Infrastructure.

Design the interior PDS in accordance with the I3A Technical Criteria to develop the functional information system features required along with the preferred technical implementation. Ensure that all PDS cable distribution and telecommunications requirements comply with the I3A Technical Criteria (for design and allocations) and with the latest versions of ANSI/TIA/EIA 568B (for technical implementation).

Follow requirements of ANSI/TIA/EIA-569-A for telecommunications paths and equipment room spaces. Provide dedicated PDS raceway space and equipment room space for the purpose of future fiber optic cable installation to each outlet location initially served only by copper cable(s). Provide space for future data and communication cabling. Provide I3A standard dual-jack voice/data outlets throughout core areas, the supply/administration areas, and the classroom's instructor's podiums/desk; use I3A functional area outlet-densities to determine the outlet quantities. Provide data outlets for all planned computer equipped classroom desktops; voice outlets are not appropriate for classroom desktops. Use of multiple-jack outlets to serve classroom desktop locations, (i.e., up to four RJ-45 jacks) is typical. Terminate classroom data outlets on patch panel(s) mounted in a classroom-based cabinet. This cabinet shall also contain any LAN networking equipment needed within the classroom. Provide fiber optic cable from this rack) to the nearest building telecommunications closet.

3.12.3.2. Cables and Jacks.

Provide in accordance with the I3A Technical Criteria using the latest technical standards in TIA/EIA-568-B. Connect all information system (voice/data) outlets from the equipment room's equipment rack with two 4-pair, Category 6, unshielded twisted pair (UTP) solid copper station cable terminated on 8-position IDC type connectors and extended to the servicing equipment room's equipment rack. Connect all single 8-position type walls, special

purpose, and pay telephone outlets with one 4-pair, Category 6, unshielded twisted pair (UTP) solid copper station cable terminated on 8-position IDC type connectors and extended to the servicing equipment room's equipment rack. For specialized circuits, such as pay phones, coordinate with the local telephone company for electrical requirements and design features required by the DoD Standards. When systems furniture is installed as part of the construction contract, insure that systems furniture specifications include ANSI/TIA/EIA-568-B and ANSI/TIA/EIA-569-A cabling and raceway standards. Use a combination of single mode and single mode fiber optic cable (12 strands of each) for backbone data service, unless expanding an existing site where other backbone cable types are required or requested by user. Refer to the I3A Technical Criteria.

3.12.4. Paging Systems.

A paging system shall be provided for the entire building. Provide a system that allows paging to individual rooms or to all building areas. Outdoor spaces such as break areas shall be on the public area system. Coordinate microphone location with user requirements.

3.12.5. Audio/Visual System.

Audio/Visual systems shall be provided and shall comply with I3A Technical Criteria and the program requirements. Provisions (consisting of a power receptacle and conduit for signal wiring) for a GFGI projector shall be provided in each conference room and classroom. A zoned paging system shall be provided throughout the facility and integrated with the telephone system. CATV shall be provided in classrooms and conference rooms. The cable television system shall consist of cabling, pathways, and outlets. All building CATV systems shall conform to applicable criteria including I3A Technical Criteria and UFC 3-580-01 Telecommunications Building Cabling Systems Planning/Design. Provide camera and microphone for audio/video recording capability at each Interview Room; determine with user, the location of recording head end equipment.

3.12.6. Cathodic Protection.

Cathodic Protection (CP) is mandatory on buried ferrous metallic structures. The design of cathodic protection systems shall be in accordance with UFC-3-570-02N.

3.12.7. Electronic Security System (ESS).

The security infrastructure shall be designed and installed to support Government-furnished equipment including ICIDS systems, CCTV surveillance systems, CCTV camera locations, doors/rooms requiring access controls and restricted access systems. Provisions shall include dedicated power circuits, communications connections, raceways, and signal wiring for user installed devices. System requirements shall be coordinated with the installation security office.

Design of security systems shall also be coordinated with the Mandatory Center of Expertise (MCX) Electronic Security Center, US Army Installation Support Center, Huntsville, Alabama.

TEMPEST requirements shall be met on a per site basis dependent on the facility zone type and the equipment NSTISSAM level. All unclassified telecommunications systems and associated infrastructure shall be electrically and physically isolated from all classified telecommunications systems in accordance with NSTISSAM requirements.

Secure Internet Protocol Routing Network (SIPRNET) access, installed in accordance with provisions of SIPRNET Technical Implementation Criteria. Secure communications rooms to accommodate SIPRNET and secure Video Teleconferencing (VTC) shall be designed and constructed in accordance with the SIPRNET Technical Implementation Criteria (Minimum secure communication room dimensions shall be 6 feet wide x 6 feet deep).

Each room shall include a communication signal ground busbar, connected to the main telecom room signal busbar via properly sized ground wire (see MIL-HDBK-419-A), and one dedicated 20-amp circuit for the SIPRNET rack/safe, in addition to convenience receptacles. The connection to the main telecommunications room shall be via a single 2-inch trade size steel conduit.

Secure VTC shall be provided for each conference room in the Battalion Headquarters.

For large facilities, an alarm and CCTV system shall be provided. Coordinate location for alarm monitoring with the user. An alarm shall be placed at each exterior door. A CCTV camera shall be installed in corridors and at building entrances. Facilities shall have their alarms reported to the Installation security office.

3.12.8. Clock System.

Clocks shall be provided in classrooms, conference rooms and visitor waiting areas. When requested by the user, this requirement may be met by providing an integrated clock system that provides adjustment of all clocks from one central point.

3.12.9. Mass Notification System.

Provide a mass notification system conforming to UFC 4-010-01 and UFC 4-021-01 for the purpose of providing real-time announcements in the immediate vicinity of the building during emergency situations. Coordinate specific system requirements with the user and the Installation.

3.13. COST

3.13.1. Criteria.

Programming and cost estimate shall be done in accordance with UFC 3-701-03 DoD Facilities Pricing Guide. Include as separate line items the cost of furniture and equipment (such as computers), which is currently projected at approximately 15% of construction cost.

3.13.2. Life Cycle Cost.

During design, consideration must be given to not only the initial cost of construction, but also the cost of operation, maintenance, and custodial care during the intended life of the building. Both initial and life costs must be analyzed, especially in the selection of utility systems, interior and exterior finishes.