

3.0 ADVANCED INDIVIDUAL TRAINING COMPLEX (AIT) <VER>(REV 2.0 – 05 APR 2012)</VER>

3.1. GENERAL REQUIREMENTS:

3.1.1. FACILITY DESCRIPTION: Advanced Individual Training (AIT) complexes are required by the Army to encompass living, dining, training, and administrative/command operations. An AIT complex is comprised of Barracks/Company Operations Facilities (B/COF), Dining Facility (DFAC) Battalion Headquarters (BNHQ), Brigade Headquarters (BDE HQ), Central Energy Plant (CCP) and Lawn Equipment Buildings (LEB). Arrange facilities, with outdoor training areas and any additional support facilities on the site as a unit to allow the Battalion to live, eat, train, and work together. This project consists of the facilities listed and described below.

A. **B/COF:** <AITCOF_NO>Not used</AITCOF_NO><AITCOF> A B/COF is comprised of sleeping units, toilets, computer learning centers, multipurpose space, storage, laundry areas, day rooms, and company operations components.</AITCOF>

B. **BNHQ:** <AITBN_NO>Not used</AITBN_NO><AITBN>A BNHQ is comprised of administration, command operations, special functions, storage and classroom components.</AITBN>

C. **BDE HQ:** <AITBDE_NO>Not used</AITBDE_NO><AITBDE>A BDE HQ is comprised of administration, command operations, and special functions.</AITBDE>

D. **DFAC:** <AITDF_NO>Not used</AITDF_NO><AITDF>A Dining Facility is part of the complex but is not procured in this contract.<AITDF_AITCCP> Energy loads for the dining facility are not part of the CCP loads.</AITDF_AITCCP> Refer to Dining Facility RFP.</AITDF>

E. **CCP:** <AITCCP_NO>Not used</AITCCP_NO><AITCCP>A CCP consists of enclosed space for equipment and required maintenance space. No administrative, conference, or operator office is authorized.</AITCCP>

F. **LEB:** <AITLEB_NO>Not used</AITLEB_NO><AITLEB>A LEB is a storage building for lawn maintenance equipment.</AITLEB>

3.1.2. FACILITY RELATIONSHIPS:

A. TRAVEL DISTANCES

1) Building Relationship Hierarchy and Distances Table:

BUILDING HIERARCHY	
Building Relationships	Maximum Distance
B/COF to DFAC	1680'
B/COF to PT Pits and Track	1200'
BNHQ to 1-story DFAC	1920'
BNHQ to 2-story DFAC	1800'
B/COF to BNHQ	1680'
BNHQ to BDHQ	1680'

Comment [sdn1]: The data in the following bracket is to be included only if BOTH a CCP and a dining facility are selected.

3.1.3. ACCESSIBILITY REQUIREMENTS:

A. FACILITY DESIGN AND CONSTRUCTION:

1) The B/COF, LEB and CCP facilities are intended for occupancy and/or use by able-bodied military personnel only. In accordance with paragraph 3(a) of the Deputy Secretary of Defense Memorandum dated 31

October 2008: DOD Access for People with Disabilities, facilities for able-bodied personnel are exempt from accessibility requirements.

2) Headquarters buildings shall comply with the Architectural Barriers Act (ABA) Accessibility Standard for DOD facilities as currently amended.

3.1.4. BUILDING AREAS:

A. GENERAL: Calculate building areas in accordance with Appendix Q.

B. NET AREA: Net area is measured to the inside face of the room or space walls. Minimum dimension where stated shall be measured to the inside face of the defining enclosure. Net area requirements for programmed spaces are included in this paragraph. If net area requirements are not specified, size the space to accommodate the required function and to comply with code requirements, overall gross area limitations, and any other requirement of this RFP. Area requirements for corridors, stairs, and mechanical rooms will typically be left to the discretion of the offeror.

3.1.5. ADAPT BUILD MODEL: (NOT USED)

3.2. FUNCTIONAL AND OPERATIONAL REQUIREMENTS: <AITCOF>

3.2.1. AITBCOF FUNCTIONAL SPACES – BARRACKS/COMPANY OPERATIONS FACILITIES (B/COF)

A. PRIMARY SPACES

1) Company Operations (First Floor):

a) **Offices**: Provide private administrative offices for the Company Commander (CO), Executive Officer (XO), Operations Sergeant (OPS SGT) and 1st Sergeant (1st SGT). Provide common space and open office space for unit administrative functions, as well as centralized area for printers, fax machines and receptacles for waste and paper recycling.

b) **Supply**: Provide storage space for company supplies and equipment, weapons, and consumable supplies. Shipping and receiving functions are performed from company supply area. Provide a pair of exterior doors with removable stanchion - in company supply.

c) **Caged Storage**: In the company supply area, provide a caged storage area separated from the company supply area with a fixed partition.

d) **Arms Vault**: Provide an Arms Vault for storage of arms, ammunition, and explosives in compliance with Appendix G of AR 190-11 and with AR 190-13 The Army Physical Security Program. Intrusion Detection and Integrated Commercial Intrusion Detection Systems are required for all Arms vaults.

e) **Covered Training Area**: Provide outside, sheltered spaces for equipment maintenance, weapons cleaning, PT during inclement weather and pre/post-training preparation and clean-up.

2) Barracks (Upper Floors):

a) Sleeping Units:

(1) **Bedroom**: Each sleeping unit shall have one, two person bedroom. Bedrooms must be of equal size and able to accommodate three of each of the following; beds, nightstands, desks and chairs with adequate circulation. Provide and mount one full length wall mirror at the end of plumbing chase in each sleeping unit. <AIT_FAN_YES> Provide a ceiling fan for each sleeping unit. </AIT_FAN_YES>

(2) **Bathroom**: Each sleeping unit shall include one bathroom with water closet and shower.

(3) **Entry**: Each sleeping unit entry area shall have three lockable built-in closets and a lavatory with a solid surface vanity countertop. Provide each built-in closet with interior dimensions of 36 inches wide by 25 inches deep and a rod and shelf. Provide each vanity with storage cabinets below, medicine cabinet and a towel bar. Locate vanity immediately outside of bathroom.

(4) **Utility Closet**: Provide one utility closet per sleeping unit to house the HVAC fan cooling/heating unit. Provide utility closet access from the corridor with a 42 inch minimum width door. Filter changes and preventative maintenance shall be performed without requiring access to the bedrooms.

Comment [sdn2]: (Susan: Radio button required for RFP writer to choose or not the option for fan.)

b) **Platoon Sergeant (PS) Office:** Provide private administrative office with toilet/shower and dressing area on each floor. Square footage for toilet/shower is included in the overall PS office space allocation. Each PS office shall be able to accommodate work space for three with adequate circulation.

(1) **PS Toilet/Shower:** Provide a toilet and shower adjacent to the PS Office and accessible from the PS Office only.

(2) **PS Dressing:** Provide a dressing area with a built-in bench adjacent to the shower area.

B. COMMON AREAS

1) **Lobby:** Provide an entry lobby with a minimum width of 10 feet. Provide space to accommodate guest chairs with adequate circulation.

a) **Reception/CQ Station:** Provide a built-in reception station located in the central portion of the lobby to provide visual control of building circulation. Provide the CQ station with modesty screening for occupant, a minimum of two lockable file drawers and securable compartments for the computer monitor, keyboard, and CPU.

2) **Toilet(s):**

a) **Men's Toilet/Shower:** Provide one shower stall and toilet facilities to serve the administrative personnel assigned to company. Provide a dressing area with a built-in bench adjacent to the shower area.

b) **Women's Toilet/Shower:** Provide one shower stall and toilet facilities to serve the administrative personnel assigned to company. Provide a dressing area with a built-in bench adjacent to the shower area.

3) **Vestibule:** Provide an enclosed transition space between the exterior and interior of the building at the lobby and rear entrances. Provide a minimum of 7 feet between doors and match width of adjacent lobby and corridor.

4) **Corridors:** Provide 6 feet minimum width corridors.

5) **Janitor Closet:** Provide two janitor closets per floor each shall have a mop sink, mop rack, storage shelving and space for buckets and vacuum.

6) **Stairs:** Provide 4 feet 6 inch minimum width stairs.

7) **Mechanical, Electrical, and Telecommunications Rooms:** Size mechanical rooms to accommodate equipment maintenance and repair access without having to remove other equipment. First floor exterior access is required for centralized mechanical room. All telecommunications rooms shall be conditioned space.

8) **Vending Area:** Locate a vending area in corridor immediately adjacent to the day room. Size each vending area to accommodate two vending machines and one ice machine.

9) **Recyclables Storage:** Provide a recyclable storage area visible in areas of high circulation or adjacent to the secondary point of entry into the facility to serve as a single point of collection for recyclable materials in the facility.

10) ~~<AIT_BOOTWASH>~~ **Boot wash:** Provide an outdoor area for soldiers to rinse mud from field gear, boots and clothing at main entrances. ~~</AIT_BOOTWASH><AIT_BOOTSCRAPER>~~ **Boot Scraper/Brush Station:** Provide cast iron dry boot scraper stations at main entrances. ~~</AIT_BOOTSCRAPER>~~

11) **Scrub Room:** Provide ten rinsing stations in an indoor area for soldiers to rinse mud from field gear, boots and clothing.

12) **Weapons Cleaning:** Provide a work area for weapons cleaning with 30 inch deep, continuous built-in counter tops.

13) **Platoon Classroom:** Provide a room divided into three equal spaces with operable partitions and adequate space for training of 30 persons in a three classroom arrangement or 100 persons with the partitions retracted. Each partitioned space shall have a separate exit, marker boards, one projection screen, projector mounting system and VTC flat panel screen. Provide each storage room with lockable double doors.

14) **Computer Learning Center:** Provide on each floor one area designed for computer usage with a lockable storage room and space to accommodate one storage cabinet, twenty-four computer carrels and task chairs with adequate circulation as listed below.

15) **Day Room:** Provide a day room on each floor. Day room functions as a soldier's lounge and includes a lockable storage room. First Floor Day Room shall be able to accommodate one sofa, two love seats, two side

tables, one table with chairs, and entertainment center and either one table tennis or pool table with adequate circulation.

16) **Centralized Laundry:** Provide one laundry room on each floor, located in the central core area. Laundry room door shall be 36 inches wide minimum. Furnish self-serve laundry facilities on each floor at ratios of 8 persons per washer and 6 persons per dryer at a surge population of 450 persons per company. Each laundry room shall accommodate spaces for dryers, washers, clothes folding/hanging tables, laundry supplies vending machines and a utility sink. Designers are encouraged to design laundry rooms that are identical from floor to floor.

17) **Luggage Storage:** Provide two luggage storage areas per floor.

18) **Profile Recovery:** This is an exercise area for injured trainees housing fitness equipment, e.g. treadmills, stationary bicycles, Stairmasters.

C. **SPACE ALLOCATION TABLE:**

B/COF MINIMUM SQUARE FOOTAGE REQUIREMENTS		
NET SQUARE FEET (NSF)		
	1ST FLOOR	UPPER FLOORS
BARRACKS		
SLEEPING UNIT – 50 UNITS PER FLOOR		
BEDROOM	216	216
BATHROOM	AS NEEDED	AS NEEDED
ENTRY	AS NEEDED	AS NEEDED
UTILITY CLOSET	AS NEEDED	AS NEEDED
PLATOON SERGEANT (PS) OFFICE	320	320
COMPANY OPERATIONS		
COMPANY COMMANDER (CO)	150	
EXECUTIVE OFFICER (XO)	110	
WAITING AREA	250	
OPS SGT	110	
1ST SGT	120	
ARMS VAULT	200	
COMPANY SUPPLY	280	
CAGED STORAGE	100	
COVERED ASSEMBLY AREA	3,500	
COMMON AREAS		
LOBBY	AS NEEDED	
STAIR	AS NEEDED	
CORRIDORS	AS NEEDED	
VESTIBULES	AS NEEDED	
CQ STATION	AS NEEDED	
COMPUTER LEARNING CENTER WITH STORAGE	900	900
DAY ROOM WITH STORAGE	900	900
CENTRALIZED LAUNDRY	AS NEEDED	
LUGGAGE STORAGE	2 x160	2 x160
JANITOR CLOSET	2 x 20	2 x 20
MECHANICAL, TELECOMMUNICATIONS AND ELECTRICAL	AS NEEDED	
MEN'S TOILET	AS NEEDED	
WOMEN'S TOILET	AS NEEDED	
VENDING	AS NEEDED	

PLATOON CLASSROOM WITH STORAGE	1700	
SCRUB ROOM	246	
WEAPONS CLEANING	120	
PROFILE RECOVERY	350	

</AITCOF><AITBN>

3.2.1.AITBN FUNCTIONAL SPACES – BATTALIAN HEADQUARTERS (BNHQ)

A. PRIMARY SPACES:

- 1) **Command Suite:** Provide a command suite with private administrative offices for the Battalion Commander (BN CO), Battalion Executive Officer (BN XO), Command Sergeant Major (CSM) and an open office/reception.
 - a) **Command Conference Room:** Conference room shall have seating for approximately 20 persons, one projection screen, projector mounting system and VTC flat panel screen.
 - b) **Coffee Bar:** Provide built-in counter with deep sink, wall and base cabinets, and shelf to accommodate microwave.
 - 2) **Operations Center (S2/S3):** Provide one private office each for S2 and S3.
 - a) **Intelligence Work Spaces:** Provide an open administrative office for multiple personnel.
 - b) **Training and Operations Work Spaces:** Provide an open administrative office for multiple personnel.
 - 3) **Administration (S1):** Provide a private administrative office. Provide an open office for multiple personnel.
 - 4) **Supply Logistics (S4):** Provide a private S-4 administrative office and open administrative office for multiple personnel workspaces.
 - 5) **Unit Ministry Team (UMT):** Provide a private office for the Chaplain and an administrative office with reception and space for the Chaplain Assistant. UMT shall have a separate exterior entrance located away from the main entrance.
 - 6) **Classrooms:** Classroom is intended to provide adequate space for training of 300 persons and shall have marker boards, one projection screen, projector mounting system and VTC flat panel screen.
 - a) **Instructor Workspace:** Provide an administrative office for multiple personnel.
 - b) **Classroom Storage:** Provide closet in corridor adjacent to classroom with full length shelf and solid core louvered upper panel doors.
- #### B. COMMON AREAS:
- Addition of SIPRNET room is prohibited without written approval of G3/5/7 proponent.
- 1) **Lobby:** Provide a handicapped accessible entry lobby with a vestibule.
 - 2) **Toilet(s):**
 - a) **Men's Toilet/Shower:** Provide two shower stalls and toilet facilities to serve the administrative personnel assigned to battalion. Provide a dressing area with a built-in wooden bench adjacent to each shower stall.
 - b) **Women's Toilet/Shower:** Provide one shower stall and toilet facilities to serve the administrative personnel assigned to battalion. Provide a dressing area with a built-in wooden bench adjacent to the shower stall.
 - 3) **Vestibule:** Provide a minimum of 7 feet between doors and match width of adjacent lobby and corridor.
 - 4) **Corridors:** Provide 6 foot minimum width corridors.
 - a) **Classrooms Corridor:** Provide a circulation area in front of the classrooms. Provide 10 foot minimum width in classroom corridors.
 - 5) **Janitor Closet:** Provide a janitor closet with a mop sink, mop rack, storage shelving and space for buckets and vacuum.

- 6) **Mechanical, Electrical, and Telecommunications Rooms:** Size mechanical rooms to accommodate equipment maintenance and repair access without having to remove other equipment. First floor exterior access is required for centralized mechanical room. All telecommunications rooms shall be conditioned space.
- 7) **Vending Area:** Size vending area to accommodate three vending machines.
- 8) **Recyclables Storage:** Provide a recyclable storage area visible in areas of high circulation or adjacent to the secondary point of entry into the facility to serve as a single point of collection for recyclable materials in the facility.
- 9) **Supply Storage:** Provide storage room for miscellaneous administrative items.
- 10) **Staff Duty/Message:** Provide a security office for building surveillance and a message center for distributing mail and directives with a built-in counter.

C. SPACE ALLOCATION TABLE

BNHQ MINIMUM SQUARE FOOTAGE REQUIREMENTS NET SQUARE FEET (NSF)	
	TOTAL NSF
COMMAND SUITE	
BATTALION EXECUTIVE OFFICER	150
SERGEANT MAJOR	150
BATTALION COMMANDER	200
COFFEE BAR	45
CONFERENCE ROOM	450
UNIT MINISTRY TEAM (UMT)	
CHAPLAIN	150
CHAPLAIN ASSISTANT/RECEPTION	110
ADMINISTRATION S1	
S1 OFFICE	110
PERSONNEL AND ADMINISTRATIVE WORK SPACES	1,050
STAFF DUTY/MESSAGE	115
SUPPLY STORAGE	100
OPERATIONS CENTER S2/S3	
S2 OFFICE	110
INTELLIGENCE WORK SPACES	400
S3 OFFICE	110
TRAINING AND OPERATIONS WORK SPACES	530
SUPPLY LOGISTICS S4	
S-4 OFFICE	110
SUPPLY AND LOGISTICS WORK SPACES	210
CLASSROOMS	
INSTRUCTOR WORK SPACE	325
CLASSROOM WITH STORAGE	3075
COMMON AREAS	
MEN'S TOILET/SHOWER	230
WOMEN'S TOILET/SHOWER	230
JANITOR CLOSET	30
VENDING	45
CORRIDORS	AS NEEDED
VESTIBULES	AS NEEDED

BNHQ MINIMUM SQUARE FOOTAGE REQUIREMENTS NET SQUARE FEET (NSF)	
	TOTAL NSF
LOBBY	AS NEEDED
MECHANICAL AND ELECTRICAL	AS NEEDED
TELECOMMUNICATIONS	110

</AITBN><AITBDE>

3.2.1.AITBDE FUNCTIONAL SPACES – BRIGADE HEADQUARTERS (BDE HQ)

A. PRIMARY SPACE:

- 1) **Command Suite:** Provide a command suite with private administrative offices for the Brigade Commander (BDE CO), Brigade Executive Officer (BDE XO), Command Sergeant Major (CSM), and an open office/reception.
 - a) **Command Conference Room:** Provide conference room seating for approximately 31 persons, one projection screen, projector mounting system and VTC flat panel screen.
 - b) **Coffee Bar:** Provide built-in counter with deep sink, wall and base cabinets, and shelf to accommodate microwave.
 - 2) **Document Storage:** Provide a storage room.
 - 3) **Operations Center (S2/S3):** Provide one private office each for S2 and S3.
 - a) **Intelligence Work Spaces:** Provide an open administrative office for multiple personnel.
 - b) **Training and Operations Work Spaces:** Provide an open administrative office for multiple personnel.
 - 4) **Administration (S1):** Provide a private administrative office. Provide an open office for multiple personnel.
 - 5) **Supply Logistics (S4):** Provide a private S-4 administrative office. Provide an open administrative office for multiple personnel workspaces.
 - 6) **Unit Ministry Team (UMT):** Provide a private office for the Chaplain and an administrative office with reception and space for the Chaplain Assistant. UMT shall have a separate exterior entrance located away from the main entrance.
- B. COMMON AREAS: Addition of SIPRNET room is prohibited without written approval of G3/5/7 proponent.
- 1) **Lobby:** Provide a handicapped accessible entry lobby with a vestibule.
 - 2) **Toilet(s):**
 - a) **Men's Toilet/Shower:** Provide one shower stall and toilet facilities to serve the administrative personnel assigned to battalion. Provide a dressing area with a built-in bench adjacent to the shower stall.
 - b) **Women's Toilet/Shower:** Provide one shower stall and toilet facilities to serve the administrative personnel assigned to battalion. Provide a dressing area with a built-in bench adjacent to the shower stall.
 - 3) **Vestibule:** Provide a minimum of 7 feet between doors and match width of adjacent lobby and corridor.
 - 4) **Corridors:** Provide 6 foot minimum width corridors.
 - 5) **Janitor Closet:** Provide a janitor closet with a mop sink, mop rack, storage shelving and space for buckets and vacuum.
 - 6) **Mechanical, Electrical, and Telecommunications Rooms:** Size mechanical rooms to accommodate equipment maintenance and repair access without having to remove other equipment. First floor exterior access is required for centralized mechanical room. All telecommunications rooms shall be conditioned space.
 - 7) **Vending Area:** Size vending area to accommodate three vending machines.

- 8) **Recyclables Storage:** Provide a recyclable storage area visible in areas of high circulation or adjacent to the secondary point of entry into the facility to serve as a single point of collection for recyclable materials in the facility.
- 9) **Supply Storage:** Provide storage room for miscellaneous administrative items.
- 10) **Staff Duty/Message:** Provide a security office for building surveillance and a message center for distributing mail and directives with a built-in counter.

C. SPACE ALLOCATION TABLE:

BDE HQ MINIMUM SQUARE FOOTAGE REQUIREMENTS NET SQUARE FEET (NSF)	
	TOTAL NSF
COMMAND SUITE	
BDE XO	150
CMD SGT MAJ	150
BDE CO	200
COFFEE BAR	55
CONFERENCE ROOM	480
UNIT MINISTRY TEAM (UMT)	
CHAPLAIN	150
CHAPLAIN ASSISTANT/RECEPTION	110
ADMINISTRATION S1	
S-1 OFFICE	110
PERSONNEL AND ADMINISTRATIVE WORK SPACES	1,167
STAFF DUTY/MESSAGE	115
SUPPLY STORAGE	100
OPERATIONS CENTER S2/S3	
S-2 OFFICE	110
INTEL WORK SPACE	400
S-3 OFFICE	110
TRAINING AND OPERATIONS	966
SUPPLY LOGISTICS S4	
S-4 OFFICE	110
SUPPLY AND LOGISTICS	660
COMMON AREAS	
LOBBY	AS NEEDED
CORRIDORS	AS NEEDED
VESTIBULES	AS NEEDED
MEN'S TOILET/SHOWER	180
WOMEN'S TOILET/SHOWER	180
JANITOR CLOSET	20
VENDING	45
MECHANICAL AND ELECTRICAL	AS NEEDED
RECYCLABLES STORAGE	AS NEEDED
DOCUMENT STORAGE	100
TELECOMMUNICATIONS	75

</AITBDE><AITLEB>

3.2.1.AITLEB FUNCTIONAL SPACES – LAWN EQUIPMENT BUILDING (LEB)

A. **GENERAL:** Provide 2,000 gross square feet lawn maintenance equipment storage building. Divide LEB with partitions into four equal spaces, to provide an individually securable storage space with separate access for each B/COF. Provide access to each individual storage space through an overhead coiling door. <AITLEB><AITCCP>

3.2.1.AITCCP FUNCTIONAL SPACES –CENTRAL ENERGY PLAN (CCP)

A. **GENERAL:** Provide adequate space and clearance for equipment maintenance and repair. <AITCCP>

3.3. SITE FUNCTIONAL REQUIREMENTS

A. **PARKING:**

1) **Privately Owned Vehicle (POV) Parking:** <AIT_POV_NO>POV parking details within the designated AIT Complex are provided below for information only; as parking will not be procured under this contract. <AIT_POV_NO><AIT_POV_YES>Design and construct POV parking, within the designated AIT Complex construction area as identified below. Base the location and design of the POV parking area(s) on the Installation's site constraints. Parking can either be consolidated or spread out along the perimeter of the complex. Ensure that the location of parking complies with UFC 4-010-01. See paragraph 5.2.3 VEHICLE PAVEMENTS for additional information. POV parking shall be as follows: <AIT_POV_YES><AITCOF>

Comment [sdn3]: Will POV parking be procured under this contract?

- a) **B/COF:** Provide 18 spaces per 300 man B/COF. <AITCOF><AITBN>
- b) **BNHQ:** Provide 23 total spaces of which includes two accessible and three visitor spaces. <AITBN><AITBDE>
- c) **BDE HQ:** Provide 50 total spaces of which includes two accessible and five visitor spaces. <AITBDE><AITDF>
- d) **DFAC -** Provide 65 total spaces of which includes three accessible spaces. <AITDF>

B. **ACCESS DRIVES AND LANES:**

1) **Access Drives:** Provide access drives to each building and locate in accordance with UFC 4-010-01. Restrict access to the drives, where applicable as required by UFC 4-010-01. Design the pavements as required by paragraph 5.2.3 VEHICLE PAVEMENTS. Minimum access drive width shall be 24 feet. Provide drives with curb and gutter and a minimum turning radius as required for emergency vehicle access.

C. **TROPP FORMATION/ASSEMBLY AREA:** <AITCOF_NO>Not Used<AITCOF_NO><AITCOF>Construct pavements for Troop formation/assembly areas, such as the pavement beneath the outdoor "Covered Training Areas" of Portland cement concrete having a minimum nominal thickness of 4 inches. Troop formation areas that are designed to also support emergency and service vehicle traffic shall be designed as roadway pavements. See Roadway Pavements of Paragraph 3.4 Site and Landscape Requirements for design requirements. <AITCOF>

3.4. SITE AND LANDSCAPE REQUIREMENTS

A. **SITE STRUCTURES**

1) **Dumpster Enclosure Area:** Locate, design and construct dumpster enclosure area(s) and screening. Locate dumpster enclosures outside of restricted areas to allow for servicing activities and in accordance with UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings. Dumpsters are GFGI. Size dumpster pads to accommodate<AIT_TRASH_DUMP> trash dumpsters only. No recycling dumpsters are required. <AIT_TRASH_DUMP><AIT_RECYC_DUMP> both trash and recycling dumpsters. <AIT_RECYC_DUMP> Dumpster screening shall be aesthetically and architecturally compatible with the building it serves and shall be designed in accordance with the Installations guidelines.

Comment [wa4]: Select the appropriate Dumpster requirement for the project

B. **LANDSCAPING/HARDSCAPING**

1) **Non-Vehicular Walks:** Construct non-vehicular pedestrian and troop formation sidewalks of Portland cement concrete having a minimum nominal thickness of 4 inches. Design uniform and symmetrical joint patterns

in accordance with AASHTO standards. The length to width ratio shall not exceed 1.25 for non-reinforced pavements. Locate walks paralleling buildings beyond the eave drip line and at least 5 feet from the foundation.

a) **Pedestrian Sidewalks:** Provide pedestrian walks within the designated construction area and connect to existing sidewalks, where applicable. Sidewalks shall be a minimum of 6 feet wide

b) **Troop Formation Sidewalks:** Troop formation sidewalks shall be a minimum of 15 feet wide. Troop formation sidewalks that are also designed to support emergency and service vehicle traffic shall be a minimum of 20 feet wide will be considered roadway pavements.

2) **Roadway Pavement:** Troop formation areas and sidewalks designed to support emergency and service vehicle traffic shall meet AASHTO standards for roadway pavements. Construct vehicular supported walks of Portland cement concrete having a minimum nominal thickness of 7 inches. Design uniform and symmetrical joint patterns in accordance with AASHTO standards. The length to width ratio shall not exceed 1.25 for non-reinforced pavements.

3) **Physical Training Areas:** ~~AIT_PT_NO~~ Physical training areas are an integral component of the AIT Complex. However the details below are for information only; as PT areas will not be procured under this contract. ~~AIT_PT_NO~~ ~~AIT_PT_YES~~ The design and construction of physical training areas is required. ~~AIT_PT_YES~~ Locate outdoor training areas, particularly those that are needed for physical fitness, to the interior areas of the AIT Complex. The minimum mandatory exterior training areas for the complex include one running track per Battalion, one physical training (PT) pit per B/COF and four 4-station climbing bar sets per B/COF.

Comment [s4n5]: Will the Physical Training area be procured as part of the contract?

a) **Running Track:** If required by RFP, provide one closed, oval or round shaped, 1/4 mile running track. The track must be a separate stand-alone feature, not incorporated into other site features, such as roads or walks. The entire track must be observable from one central location to allow minimal drill instructor oversight. Construct the track of a synthetic sports surface material, as specified in Specification Section 02 83 30 Synthetic Sports Surface of Appendix J. Track width shall be 15 feet. Running lanes are not required. Design surface and subsurface drainage for the track. Standing water is not permitted on the track.

b) **PT Pits:** If required by RFP, provide one PT Pit and four 4-station climbing bar sets for each B/COF. Refer to Appendix J, drawings for physical training equipment. Each pit shall be a minimum of 18,500 square feet. Square pits are desired, but pits configurations may be adjusted to accommodate site conditions. Locate the pits to the rear of each facility as either be stand-alone facilities or located within the interior of the track. Separation of PT pits located within the track shall be visibly defined. PT pits will be used for hand to hand combat drills, as well as, calisthenics. Construct the PT pit of a durable, low maintenance surface, such as shredded rubber chips. Design surface and subsurface drainage for the PT pits. Standing is not permitted on the PT pits. Providing canopy coverings over the PT pits or fencing around the pits is not permitted.

3.5. ARCHITECTURAL REQUIREMENTS

A. **GENERAL:** Provide durable and easily maintainable materials. Do not use exterior materials that require periodic repainting or similar refinishing processes. Material exposed to weather shall be factory pre-finished, integrally colored or provided with intrinsic weathering finish.

B. WALLS:

1) **Exterior Walls:** Where Exterior Insulation and Finish Systems (EIFS), or any other material except CMU or other Masonry material is used as exterior finish material, it shall be in conjunction with a CMU wainscot. EIFS shall be "high-impact" type and shall be "drainable" type.

C. **MOLD AND MILDEW:** The Designer of Record shall provide details in the design analysis and design showing steps taken to mitigate the potential growth of mold and mildew in the facility. All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. All gypsum board shall be transported, handled, stored and installed in accordance with the GYPSUM ASSOCIATION – Guidelines for Prevention of Mold Growth on Gypsum Board (GA-238-03).

D. **ROOF SYSTEMS:** For membrane roof systems provide a minimum slope of 1/4 inch per foot and roof crickets with a minimum 1/2 inch per foot slope. Membrane roof systems shall be fully adhered. Provide pitched roof systems with a minimum slope of 3 inches per foot. Roof pitch shall also comply with applicable Area Design Guideline and Installation Design Guideline if conflict exists design roof in accordance with most stringent slope.

Structural standing seam metal roofs shall comply with the requirements of ASTM E 1592. Roof system shall be Underwriters Laboratory (UL 580 Class 90) rated or Factory Mutual Global (FM) I-90 rated and comply with applicable criteria for fire rating.

- 1) **Roof Mounted Equipment:** For roof mounted equipment, provide permanent access walkways and platforms to protect roof. Roof mounted equipment on pitched roof systems is unacceptable. Roof mounted equipment on membrane roof systems shall be completely screened by the roof parapet.
- 2) **Roof Access:** Roof access from building exterior is prohibited.
- 3) **Trim and Flashing:** Gutters, downspouts, and fascias shall be factory pre-finished metal and shall comply with SMACNA Architectural Sheet Metal Manual.

E. OPENINGS

1) **Storefronts/Curtain Walls & Entrances:**

a) **Storefronts (Main Entrance Doors):** Provide aluminum storefront doors and frames with Architectural Class 1 anodized finish, fully glazed, with medium or wide stile for entry into lobbies or corridors. Provide doors complete with frames, framing members, subframes, transoms, sidelights, trim, applied muntins, and accessories. Provide framing with thermal-break design. Storefront systems shall comply with wind-load requirements of applicable codes and criteria including UFC 4-010-01.

b) **Curtain Wall Systems:** Curtain wall systems shall be capable of withstanding area wind loads, thermal and structural movement required by location and project requirements, and shall comply with applicable codes and criteria including UFC 4-010-01

2) **Windows:**

a) **Exterior Windows:** Provide insulated, high efficiency window systems, with thermally broken frames complying with applicable codes and criteria including UFC 4-010-01. Design window sills to discourage bird nesting.

3) **Doors and Frames:**

a) **Exterior Insulated Hollow Metal Doors & Frames:** Provide galvanized insulated hollow metal doors and frames opening to spaces other than corridors or lobbies compliant with ANSI A250.8/SDI 100. Doors shall be heavy duty (grade 2) insulated with 18-gage steel cladding; top edge closed flush; A60 galvanized. Frames shall be 12-gauge, with continuously welded mitered corners and seamless face joints. Construct doors and frames of hot dipped zinc coated steel sheet, complying with ASTM A653, Commercial Steel, Type B, minimum A40 coating weight; factory primed. Fire-rated openings shall comply with applicable codes, and the requirements of the labeling authority. Door and frame installation shall comply with applicable codes and criteria including UFC 4-010-01.

b) **Interior Insulated Metal Doors:** Insulated hollow metal doors shall comply with ANSI A250.8/SDI 100. Doors shall be minimum Level 2, physical performance Level B, Model 2; factory primed. Provide insulated hollow metal doors for utility rooms, storage rooms and toilets.

c) **Solid Core Wood Doors:** All doors shall be wood doors except noted otherwise Provide flush solid core wood doors conforming to WDMA I.S.-1A. Stile edges shall be non-finger jointed hardwood compatible with face veneer. Provide Architectural Woodwork Institute (AWI) Grade A hardwood face veneer for transparent finished doors.

d) **Interior Hollow Metal Frames:** Hollow metal frames shall comply with ANSI A250.8/SDI 100. Frames shall be minimum Level 2, 16 gauge, with continuously welded mitered corners and seamless face joints; factory primed.

4) **Hardware:**

a) **Door Hardware:** Provide closers for all exterior doors, all doors opening to corridors and as required by codes. Install exit devices on all building egress doors. Provide other hardware as necessary for a complete installation.

(1) **Finish Hardware (Master Keying System/Cores):** All hardware shall be consistent and shall conform to ANSI/BMHA standards for Grade 1. Coordinate all requirements for hardware with the Contracting Officer. Hardware finish shall conform to ANSI/BMHA A156 18; finish shall be Code # «AIT_HARDWARE_FINISH_CODE». Provide extension of the existing Installation's keying system. Installation

keying system is «AIT_KEYING_SYSTEM». Cores for locksets other than those for mechanical, electrical, and telecommunications rooms shall be manufactured by «AIT_KEY_MANUFACTURER». Locksets shall have interchangeable cores with no less than seven pins. Provide key-removable type cylinder cores that allow core removal from the lockset without disassembly of knob or lockset. Locksets for mechanical, electrical and telecommunications rooms only shall be keyed to the existing Installation Master Keying System. Provide HVAC terminal units that are accessed from a central corridor with a deadbolt and fixed pull to minimize protrusion into corridor. Plastic cores are unacceptable. Door hardware and security requirements must be coordinated with the functional requirements, the room-by-room criteria, and the electrical security/fire alarm system requirements of this document

Comment [sdn6]: (The writer will be required to give details of the keying system used on the Installation.)

Comment [sdn7]: (The writer will be required to name the manufacturer used on the Installation. Most use Best Lock, otherwise they can describe requirement.)

DEFAULT BEST LOCK CORPORATION.

(2) **Fire and Exit Door Labeling:** Install hardware for fire doors in accordance with the requirements of applicable codes. Exit devices installed on fire doors shall have a visible label bearing the marking "Fire Exit Hardware". Other hardware installed on fire doors, such as locksets, closers, and hinges shall have a visible label or stamp indicating that the hardware items have been approved by an approved testing agency for installation on fire-rated doors. Hardware for smoke-control door assemblies shall be installed in accordance with applicable codes.

(3) **Door Stops:** Provide wall or floor stops for all exterior doors that do not have overhead holder/stops.

b) **Auxiliary Hardware:**

(1) Clothes/Robe Hooks:

(a) **Toilets/Showers:** Provide double robe hook adjacent to shower enclosure entry.

c) **Electronic Key Card Access System:**

d) **Non-Destructive Emergency Access System (KNOX Box):** <AIT_LOCKBOX_NO> Not Used <AIT_LOCKBOX_NO><AIT_LOCKBOX> Fire Department Secure Lock-Box: «AIT_LOCKBOX_DESCRIPTION» <AIT_LOCKBOX>

Comment [sdn8]: "Are Fire Department Secure Lock-Box to be used? If the answer is yes, tell the RFP writer to describe the Knox-Box requirements. Give the writer approximately 500 characters for the description. If the answer is no, insert "not used".

5) **Exterior:** Provide exterior louvers with bird, bug and/or both screens designed to exclude wind-driven rain constructed to withstand wind loads in accordance with the applicable codes. Wall louvers shall bear the Air Movement & Control Association (AMCA) International certified ratings program seal for air performance and water penetration in accordance with AMCA 500-D and AMCA 511. Louver finish shall be factory applied.

F. **EXTERIOR SPECIALTIES:**

1) **Bird Habitat Mitigation:** Provide details in the design necessary to eliminate the congregating and nesting of birds at, on, and in the facility.

G. **ACOUSTICAL REQUIREMENTS:**

1) Design exterior walls and roof/floor/ceiling assemblies, doors, windows and interior partitions to provide for attenuation of external noise sources such as airfields in accordance with applicable criteria.

2) Sound conditions and levels for interior spaces, due to the operation of mechanical and electrical systems and devices, shall not exceed levels as recommended by ASHRAE handbook criteria.

H. **THERMAL REQUIREMENTS:** See Section 3.12 Energy Conservation Requirements. <AITCOF>

3.5.AITBCOF ARCHITECTURAL REQUIREMENTS – BARRACKS/COMPANY OPERATIONS FACILITY

A. **OPENINGS**

1) **Doors and Frames:**

a) **Arms Vault:** Arms vault door shall incorporate a steel dutch-door type day-gate with a steel issue shelf built into the lower leaf of the day-gate and shall comply with Appendix G of AR 190-11.

2) **Hardware:**

a) **Auxiliary Hardware:**

(1) **Door Latches:** Provide each sleeping unit entry closet door with a Function (F75), Grade 1 closet latch, and with padlock eyes so the occupant can provide his/her own padlock. One padlock eye shall be mortised into

and screw attached flush with door edge on the latch side of the door and the second padlock eye shall be mortised and welded flush into the inside face of the door frame jamb. Fabricate padlock eye to accommodate padlock shackle up to 1/4" diameter. Padlock eye color shall match door frame color. Locate padlock eye at between 4'-6" and 5'-6" AFF at the same height in all modules.

(2) **Clothes/Robe Hooks:**

- (a) **Sleeping Unit Bathroom:** Provide one double robe hook on the inside face of bathroom door.
- (b) **PS Toilet/Shower:** Provide one robe hook in the shower dressing area.

3) **Glass and Glazing:**

a) **Mirrors:**

- (1) **Sleeping Unit:** Provide a full length wall mirror measuring at least 16 to 24 inches wide by 72 inches long in bedroom.

B. **VAULT REQUIREMENTS:** Arms Vault shall comply with Appendix G of AR 190-11, Physical Security of Arms, Ammunition, and Explosives. Vendors shall be DAQ Level 3, Level 1 Certified.

C. **ACOUSTICAL REQUIREMENTS:**

- 1) **Sleeping Units:** Provide acoustical treatment for drain lines and other utilities to prevent noise transmission into the interior of sleeping units.
- 2) **CO Office:** Provide sound insulation to meet a minimum STC rating of 50 at walls and doors.
- 3) **Classroom:** Partitions shall have a minimum STC rating of 45. </AITCOF><AITBN>

3.5.AITBN ARCHITECTURAL REQUIREMENTS – BATTALION HEADQUARTERS (BNHQ)

A. **ACOUSTICAL REQUIREMENTS:**

- 1) **BN CO Office:** Provide sound insulation to meet a minimum STC rating of 49 at walls and a STC of 28 at doors.
- 2) **Chaplain Office & Assistant/Waiting Area:** Provide sound insulation to meet a minimum STC rating of 50 at walls doors. </AITBN><AITBDE>

3.5.AITBDE ARCHITECTURAL REQUIREMENTS – BRIGADE HEADQUARTERS (BDE HQ)

A. **ACOUSTICAL REQUIREMENTS:**

- 1) **BDE HQ Areas:** At all BDE HQ areas provide sound insulation to meet a minimum rating at doors, walls and floor/ceiling assemblies of STC 50. </AITBDE><AITLEB>

3.5.AITLEB ARCHITECTURAL REQUIREMENTS – LAWN EQUIPMENT BUILDING (LEB)

A. **OPENINGS**

- 1) **Doors and Frames:** Each overhead coiling door shall be lockable and a minimum of eight feet wide by seven feet high for access. </AITLEB>

3.5.1. FINISHES AND INTERIOR SPECIALTIES

A. **GENERAL:** Provide durable materials and furnishings that are easily maintained and replaced. Maximize use of daylighting. Provide interior surfaces that are easy to clean and light in color.

B. **FINISHES:**

- 1) **Minimum Finish Requirements:** Designers are not limited to finishes listed in the following INTERIOR FINISHES table(s) and are encouraged to offer higher quality finishes. Wall, ceiling and floor finishes and movable partitions shall conform to the requirements of the IBC, NFPA and UFC 3-600-01 Fire Protection Engineering for Facilities. Where code requirements conflict, the most stringent code requirement shall apply.

a) **Walls:** All wall finish shall be minimum 5/8" painted gypsum board, except where stated otherwise. Use impact resistant gypsum board in corridors, storage rooms, stairwells and activity rooms and centralized laundries (if centralized laundries are required by RFP). Provide a Level 4 Finish in accordance with USG Handbook, latest edition.

b) **Ceilings:** All ceiling finishes shall be minimum 5/8" painted gypsum board, except where stated otherwise. Provide a Level 4 Finish in accordance with USG Handbook, latest edition.

(1) **Acoustical Ceiling Tiles (ACT):** Shall be 24"x 24" Acoustical tile panels of 5/8 inch minimum thickness. Type as indicated, Class A. Light reflectance shall exceed 75 percent, color, texture and finish shall be as indicated. When not indicated provide white, fissured texture acoustical panels with a beveled tegular edge. NRC not less than 0.60, CAC not less than 35.

(2) **Ceiling Grid:** Provide a 9/16" suspension system - Type as indicated. Color, texture and finish shall be as indicated. When not indicated provide white, hot-dipped galvanized steel, exposed tee grid with hold down clips for ceiling tiles.

c) **Floors:** Resilient Flooring shall be minimum 1/8 inch thick, conforming to ASTM F 1066, Class 2, through pattern tile, Composition 1, asbestos free, with color and pattern uniformly distributed throughout the thickness of the tile.

d) **Countertops:** Provide solid surfacing of either Solid Polymer or Solid Polyester Resin Composition to be used for countertops and backsplashes, 1/2-inch minimum thickness. Must meet ANSI/NEMA LD 3 and ASTM E 84. High-Pressure Laminate will not be allowed for countertops in restroom, toilet room, kitchen or break room applications. Provide countertops with waterfall front edge and integral covered backsplash, minimum 4" high.

e) **Window Sills:** Provide solid surfacing of either Solid Polymer or Solid Polyester Resin Composition 1/2-inch minimum thickness. Must meet ANSI/NEMA LD 3 and ASTM E 84."

2) **Minimum Paint Finish Requirements:** All paints used shall be listed on the "Approved product list" of the Master Painters Institute, (MPI). Follow application criteria recommended by MPI guide specifications for the substrate to be painted and the environmental conditions existing at the project site. Except factory pre-finished material, provide surfaces receiving paint with a minimum of one prime coat and two finish coats. Paints having a lead content over 0.06 percent by weight of nonvolatile content are unacceptable. Paints containing zinc-chromate, strontium-chromate, mercury or mercury compounds, confirmed or suspected human carcinogens shall not be used on this project.

a) **Exterior Surfaces:** Exterior paints and coating products shall be classified as containing low volatile organic compounds (VOCs) in accordance with MPI criteria. Application criteria shall be as recommended by MPI guide specifications. Provide an MPI Gloss Level 5 Finish (semi-gloss), unless otherwise specified.

b) **Interior Surfaces:** Interior paints and coating products shall contain a maximum level of 150 grams per liter (g/l) of VOCs for non-flat coatings and 50 g/l of VOCs for flat coatings. Provide an MPI Gloss Level 5 Finish (semi-gloss) in wet areas and a flat finish in all other areas.

C. INTERIOR SPECIALTIES:

1) Visual Display Units/Cases:

a) **Bulletin Boards:** Where required, bulletin boards shall be 4 feet high and 6 feet wide with a header panel and lockable glazed doors.

2) **Toilet Accessories:** Furnish and install the items listed below and all other toilet accessories necessary for a complete and usable facility. All toilet accessories shall be Type 304 stainless steel with satin finish. Toilet accessories shall include the following:

a) **Toilet/Shower(s):**

(1) Glass Mirror/Shelf – 18 inch by 24 inch glass mirror on stainless steel frame with shelf at each lavatory

(2) Hands free liquid soap dispenser – at each lavatory

(3) Hands free paper towel dispenser – adjacent to lavatory, one for every two

(4) Waste receptacle – recessed mounted at each lavatory/toilet area

(5) Sanitary napkin disposal - at each female toilet

- (6) Toilet paper dispenser – lockable multiple roll at each toilet
- (7) Sanitary toilet seat cover dispenser – at each toilet
- (8) Shower curtain rod, extra heavy duty – at each shower
- (9) Shower curtain, white anti-bacterial nylon/vinyl fabric shower curtain – at each shower
- (10) Soap dish – in shower
- (11) Grab bars – as required by ABA
- 3) **Wall Protection:**
 - a) **Chair Rail:** Install chair rails in areas prone to hi-impact use, such as corridors and lobby seating areas.
 - b) **Corner Guards:** Provide surface mounted, high impact resistant, integral color, snap-on type resilient corner guards, extending from floor to ceiling for wall and column outside corners in high traffic areas. Furnish factory fabricated end closure for top and bottom of surface mounted corner guards.
- 4) **Storage Shelving:**
 - a) **Janitor Closet:** Provide each janitor closet *with* a four holder mop rack and two 18 inch deep by 48 inch long heavy duty stainless steel shelves for storage of cleaning supplies.
 - 5) **Fire Extinguishers, Cabinets & Mounting Brackets:** Furnish a list of installed fire extinguisher cabinets and mounting brackets (including location, size and type) to the Contracting Office Representative. Provide a list of all required portable fire extinguishers, with descriptions (location, size, type, etc.) and total number per type. See also Section 01 33 16, Attachment D, "SAMPLE FIRE PROTECTION AND LIFE SAFETY CODE REVIEW", paragraph 1.14. <AITCOF>

3.5.1.AITBCOF FINISHES AND INTERIOR SPECIALTIES – BARRACKS/COMPANY OPERATIONS FACILITIES

- A. **GENERAL:** Design B/COF barracks area with a residential ambience. Design B/COF company operations area with an office ambience
- B. **FINISHES:**
 - 1) **Excluded Finishes:**
 - a) **Floors:** Carpet shall not be used as a floor finish in the B/COF.
 - 2) **Finish Table:**

BCOF MINIMUM INTERIOR FINISHES																
	FLOORS				BASE		WALLS				CEILING			REMARKS		
	RESILIENT FLOORING	PORCELAIN OR QUARRY TILE	CERAMIC TILE	RECESSED ENTRY MAT	SEALED CONCRETE	RESILIENT BASE	PORCELAIN OR QUARRY BASE	CERAMIC BASE	GYPSUM WALL BOARD - PAINT	REINFORCED, FULLY GROUTED CMU OR CONCRETE	CERAMIC TILE	INSULATED STORE FRONT SYSTEM, LAMINATED GLASS	GYPSUM WALLBOARD		ACOUSTICAL CEILING TILE (2 x 2)	REINFORCED CONCRETE
SLEEPING UNIT																
BEDROOM	•					•			•				•			
BATHROOM			•					•	•		•					NOTES 1 & 4
ENTRY	•					•									8'-0"	
UTILITY ROOM					•	•			•				•		8'-0"	

BCOF MINIMUM INTERIOR FINISHES

	FLOORS				BASE			WALLS				CEILING			REMARKS		
	RESILIENT FLOORING	PORCELAIN OR QUARRY TILE	CERAMIC TILE	RECESSED ENTRY MAT	SEALED CONCRETE	RESILIENT BASE	PORCELAIN OR QUARRY BASE	CERAMIC BASE	GYPSUM WALL BOARD - PAINT	REINFORCED, FULLY GROUTED CMU OR CONCRETE	CERAMIC TILE	INSULATED STORE FRONT SYSTEM, LAMINATED GLASS	GYPSUM WALLBOARD	ACOUSTICAL CEILING TILE (2 x 2)		REINFORCED CONCRETE	MINIMUM HEIGHT 9' UNLESS STATED OTHERWISE
LOBBY AND VESTIBULES																	
STAIR	•				•							•					NOTE 8
CORRIDORS		•															
PS OFFICE	•																
PS TOILET			•														NOTES 1 & 4
CQ STATION		•															
COMPUTER LEARNING CENTER	•																NOTE 3
DAY ROOM	•																NOTE 3 & 5
CENTRALIZED LAUNDRY		•															NOTES 4
LUGGAGE STORAGE	•																
GENERAL STORAGE	•																
JANITOR CLOSET		•															NOTE 2
MECHANICAL					•												NOTES 7
TELECOM	•														10'-0"		
ELECTRICAL					•												
CO	•																NOTE 6
XO	•																
WAITING AREA		•															
OPS SGT	•																
1ST SGT	•																
MEN'S TOILET			•														NOTES 1
WOMEN'S TOILET			•														NOTES 1
MULTI PURPOSE SPACE	•																NOTE 3
SCRUB ROOM					•												
WEAPONS CLEANING					•												
ARMS VAULT					•												
COMPANY SUPPLY	•																
CAGED STORAGE	•																
PROFILE RECOVERY	•																NOTE 3
COVERED ASSEMBLY AREA					•												

1. ALL WET WALLS IN TOILET ROOMS SHALL HAVE A 4' HIGH CERAMIC TILE WAINSCOT. ALL SHOWERS SHALL HAVE FULL HEIGHT TILE WALLS EXTENDING TO CEILING.
2. WALLS ADJACENT TO JANITOR SINK SHALL HAVE A 4' 0" HIGH CERAMIC WAINSCOT.
3. USE SAME FINISHES IN ADJACENT CLOSET OR STORAGE ROOM.
4. ALL COUNTERS SHALL HAVE A MINIMUM OF 4" HIGH BACKSPLASH.
5. IN VENDING OR RECYCLABLES STORAGE AREA, MATCH FLOORING, WALL, AND CEILING FINISHES TO THOSE OF ADJACENT AREA.
6. EXTEND PARTITIONS TO DECK.
7. CEILING MAY BE PAINTED EXPOSED STRUCTURE IF ALLOWED BY APPLICABLE CODE.
8. RISERS SHALL BE PAINTED STEEL. STAIR LANDINGS AND TREADS SHALL HAVE RESILIENT FLOORING OR SEALED CONCRETE. PROVIDE TREADS WITH SLIP RESISTANT NOSING.

C. INTERIOR SPECIALTIES:

- 1) Signage & Directories:

a) **Room Signage:** At each sleeping unit, provide two room number and changeable two-line message strip signs, one on each side of entry door. Changeable message strip signs shall be of same construction as standard room signs to include a clear sleeve that will accept a paper or plastic insert with identifying changeable text. The insert shall be prepared typeset message photographically enlarged to size and mounted on paper card stock.

2) **Visual Display Units/Cases:**

a) **Bulletin Boards:** In each B/COF provide one centrally located bulletin board per floor.

b) **Marker Boards:** Provide the Platoon classroom with 48 inch high dry-eraser marker boards along entire length of front and side walls.

3) **Toilet Accessories:**

a) **Sleeping Unit Bathroom:** Accessories shall include the following items:

(1) Two heavy duty towel bars minimum 24 in wide each - one at vanity and one at Shower area

(2) Recessed Mirrored medicine cabinet min 18 x 24 inches – at each lavatory

(3) Soap dish – in each shower

(4) Combination soap dish/toothbrush holder – at each lavatory

(5) Toilet paper holder – at each toilet

(6) Shower curtain rod extra heavy duty – at each shower

(7) Shower curtain - white anti-bacterial nylon/vinyl fabric at each shower

b) **Drill Instructor Toilet/Shower:** Accessories shall include the following items:

(1) Glass mirrors on stainless steel frame and shelf min 18 x 24 in – at each lavatory

(2) Hands free liquid soap dispenser – at each lavatory

(3) Hands free paper towel dispenser – at each lavatory/toilet area

(4) Waste receptacle recessed mounted – at each lavatory/toilet area

(5) Toilet paper dispenser – lockable multiple roll at each toilet

(6) Shower curtain rod extra heavy duty - at each shower

(7) Shower curtain – white anti-bacterial nylon/vinyl fabric shower curtain

(8) Soap dish – in each shower

4) **Wall Protection:** Provide 8 foot (8') high wall guard panels with trimmings and a finish color that complements the interior finishes in the supply room and corridor adjacent to the supply room.

5) **Partitions:**

a) **Platoon Classroom:** Provide ceiling hung operable partitions.

b) **Caged Storage:** Install a fixed, full height, security wire mesh partition with padlocked wire door.

6) **Storage Shelving:**

a) **Sleeping Unit Closet:** Provide in each entry closet two 36 inch wide by 18 inch deep shelves set at 18 inches and 30 inches vertically above closet floor and capable of supporting a minimum of 15 pounds per linear foot.

b) **Computer Learning Center Storage:** Provide a minimum of six, 18 inch deep storage shelves, spaced at 12 inches on center vertically and capable of supporting a minimum of 20 pounds per linear foot. Total linear footage of storage shelves shall be three times the perimeter of the storage room.

c) **Day Room Storage:** Provide a minimum of six, 18 inch deep storage shelves, spaced at 12 inches on center vertically and capable of supporting a minimum of 20 pounds per linear foot. Total linear footage of storage shelves shall be three times the perimeter of the storage room.

BNHQ MINIMUM INTERIOR FINISHES													
	FLOORS					BASE		WALLS		CEILING		REMARKS	
	RESILIENT FLOORING	PORCELAIN OR QUARRY TILE	CERAMIC TILE	RECESSED ENTRY MAT	SEALED CONCRETE	CARPET	RESILIENT BASE	CERAMIC BASE	GYPSUM WALLBOARD - PAINT	CERAMIC	GYPSUM WALLBOARD		ACOUSTICAL CEILING TILE (2 x 2)
SUPPLY STORAGE						•	•		•		•		
COFFEE BAR	•						•		•		•		
CONFERENCE ROOM	•						•		•		•		
1. IN VENDING OR RECYCLABLES STORAGE AREA, MATCH FLOORING, WALL, AND CEILING FINISHES TO THOSE OF ADJACENT AREA.													
2. ALL WET WALLS SHALL HAVE A 4'-0" HIGH CERAMIC TILE WAINSCOT OR FULL HEIGHT TILE WALLS													

C. INTERIOR SPECIALTIES:

1) Visual Display Units/Cases:

a) Bulletin Boards: Provide one bulletin board near the main entrance. </AITBN><AITBDE>

3.5.1.AITBDE FINISHES AND INTERIOR SPECIALTIES – BRIGADE HEADQUARTERS (BDE HQ)

A. GENERAL: Design headquarters building with an office ambience.

B. FINISHES:

1) Minimum Finish Requirements:

a) **Floors:** Carpet shall be minimum of 2 yarn ply, modular tile conforming to ISO 2551, ASTM D 418, ASTM D 5793, ASTM D 5848, solution dyed, tufted, cut and loop pile, commercial 100% branded (federally registered trademark) nylon continuous filament.

2) Finish Table:

BDE HQ INTERIOR FINISHES																
	FLOORS					BASE		WALLS		CEILING		REMARKS				
	RESILIENT FLOORING	PORCELAIN OR QUARRY TILE	CERAMIC TILE	RECESSED ENTRY MAT	SEALED CONCRETE	CARPET	RESILIENT BASE	PORCELAIN OR QUARRY BASE	CERAMIC BASE	GYPSUM WALL BOARD-PAINT	CERAMIC TILE		INSULATED STORE FRONT SYSTEM, LAMINATED GLASS	GYPSUM WALL BOARD-PAINT	ACOUSTICAL CEILING TILE (2 x 2)	MINIMUM HEIGHT 9'-0" UNLESS STATED OTHERWISE
S-1 OFFICE	•						•		•				•			REFER TO NOTE
PERSONNEL & ADMINISTRATIVE WORKSPACES	•						•		•				•			
STAFF DUTY/MESSAGE	•						•		•				•			NOTE 4
BDE XO/DEPUTY	•					•	•		•				•			

BDE HQ INTERIOR FINISHES															
	FLOORS					BASE		WALLS			CEILING		REMARKS		
	RESILIENT FLOORING	PORCELAIN OR QUARRY TILE	CERAMIC TILE	RECESSED ENTRY MAT	SEALED CONCRETE	CARPET	RESILIENT BASE	PORCELAIN OR QUARRY BASE	CERAMIC BASE	GYPSUM WALL BOARD-PAINT	CERAMIC TILE	INSULATED STORE FRONT SYSTEM, LAMINATED GLASS		GYPSUM WALL BOARD-PAINT	ACOUSTICAL CEILING TILE (2 x 2)
CMD SGT MAJ						•	•		•				•		REFER TO NOTE
BDE CO							•								NOTES 3 & 6
COMMAND TOILET			•					•	•	•					NOTE 1
COFFEE BAR	•						•						•		NOTE 4
CONFERENCE ROOM						•	•		•				•		NOTE 6
SUPPLY STORAGE	•						•		•				•		
S-2 OFFICE	•						•		•				•		
INTELLIGENCE WORKSPACES	•						•		•				•		
DOCUMENT STORAGE	•						•		•				•		
CHAPLAIN						•	•		•				•		NOTE 6
CHAPLAIN ASSISTANT	•						•		•				•		NOTE 6
S-3 OFFICE	•						•		•				•		
TRAINING & OPERATIONS WORKSPACES	•						•		•				•		
S-4 OFFICE	•						•		•				•		
SUPPLY & LOGISTICS WORKSPACES	•						•		•				•		
LOBBY		•					•		•				•		
VESTIBULES		•		•			•		•				•		
CORRIDORS		•					•		•				•		NOTE 5
MEN'S TOILET			•				•		•				•		NOTES 1 & 4
WOMEN'S TOILET			•				•		•				•		NOTES 1 & 4
JANITOR CLOSET		•					•		•				•		NOTE 2
MECHANICAL					•		•		•				•		NOTE 7
ELECTRICAL					•		•		•				•		
TELECOMM					•		•		•				•		
1. ALL WET WALLS IN TOILET ROOMS SHALL HAVE A 4' HIGH CERAMIC TILE WAINSCOT. ALL SHOWERS SHALL HAVE FULL HEIGHT TILE WALLS EXTENDING TO CEILING.															
2. WALLS ADJACENT TO JANITOR SINK SHALL HAVE A 4'-0" HIGH CERAMIC TILE WAINSCOT.															
3. USE SAME FINISHES IN ADJACENT CLOSET OR STORAGE ROOM.															
4. ALL COUNTERS SHALL HAVE A MINIMUM OF 4" HIGH BACKSPLASH.															
5. IN VENDING OR RECYCLABLES STORAGE, MATCH FLOORING, WALL, AND CEILING FINISHES TO THOSE OF ADJACENT AREA.															
6. EXTEND PARTITIONS TO DECK.															
7. CEILING MAY BE PAINTED EXPOSED STRUCTURE IF ALLOWED BY APPLICABLE CODE.															

C. INTERIOR SPECIALTIES:

1) Visual Display Units/Cases:

- a) Bulletin Boards: In the headquarters building provide one bulletin board near the main entrance.
 </AITBDE><AITLEB>

3.5.1.AITLEB FINISHES AND INTERIOR SPECIALTIES – LAWN EQUIPMENT BUILDING (LEB)

A. FINISHES:

- 1) Minimum Finish Requirements:

- a) **Walls:** Walls shall be painted impact resistant gypsum wallboard.
- b) **Floors:** Floors shall be sealed concrete with a resilient base. </AITLEB><AITCCP>

3.5.1.AITCCP FINISHES AND INTERIOR SPECIALTIES – CENTRAL ENERGY PLANT (CCP)

A. FINISHES:

1) **Minimum Finish Requirements:**

- a) **Walls:** Walls shall be painted impact resistant gypsum wallboard.
- b) **Floors:** Floors shall be sealed concrete with a resilient base. </AITCCP>

3.6. STRUCTURAL REQUIREMENTS

A. GENERAL: Design and construct as a complete system in accordance with APPLICABLE CRITERIA.

B. DESIGN LOADS: Note that the minimum live loads indicated do not include partition loads.

1) **Live Loads:** Design live loads shall be per the IBC but not less than the following minimums.

- a) Elevated slabs 60 pounds per square foot (psf)
- b) Slab on grade 150 psf
- c) Centralized Laundry 150 psf, but not less than actual equipment loads.
- d) Partitions: Partition live loads of 15 pounds per square foot (psf) shall be added to all areas with a live load of 80 psf or less.

3.7. SEE PARAGRAPH 6.7 THERMAL PERFORMANCE – NOT USED

3.8. PLUMBING REQUIREMENTS

A. FIXTURE FLOW RATES:

- 1) **Janitor Closet's:** Sinks shall have a maximum flow rate of 2.0 gpm
- 2) **Water closets:** Water Closets shall be flush valve type providing 1.28 gallons per flush or dual flush with an equivalent average flush volume of 1.28 gallons per flush.
- 3) **Showers:** Showers shall have a maximum flow rate of 1.5 gpm
- 4) **Bathroom sinks:** Bathroom sinks shall have a maximum flow rate of 0.5 gpm

B. DRAINS, INTERCEPTORS, SEPARATORS & CLEANOUTS:

- 1) **Toilets/Showers:** Provide flow drain in dressing area outside of shower.

C. PLUMBING FIXTURES:

1) **Commercial Plumbing Fixtures:**

- a) **Mop Sinks:** Provide a 10 inch deep floor mounted stainless steel mop sink, with hot and cold service faucet in each janitor closet. <AITCOF>

3.8.AITBCOF PLUMBING REQUIREMENTS – BARRACKS/COMPANY OPERATIONS FACILITIES (B/COF)

A. DOMESTIC WATER:

- 1) **Heating System:** Size domestic water heating system based on 20 gallons of 110 deg F hot water consumption per occupant during morning peak period. Peak period duration shall be 30 minutes (10 minute duration for shower and lavatory use per occupant per sleeping unit plus a 10 minute transition period). Base hot water storage capacity on 75% usable storage and a storage temperature of 140 deg F.

2) **Pipe Sizing:** Base domestic hot water pipe sizing on all showers flowing simultaneously at a rate of 2.0 gpm per shower. Size waste stacks, building waste drains, and lift stations with consideration of the increased flow rates as well. Domestic hot water distribution shall be at 120 deg F from a central system mixing valve. Design domestic hot water distribution piping to handle up to 180 deg F water temperatures.

B. **DRAINS, INTERCEPTORS, SEPARATORS & CLEANOUTS:**

1) **Interceptors:**

a) **Sand Interceptors:** Provide Scrub Room and Boot wash drains with easily maintainable sand interceptors.

b) **Solids Interceptors:** Laundry facilities shall be considered commercial laundries with respect to the International Plumbing Code (IPC) and shall be provided with easily maintainable solids interceptor(s) in accordance with the IPC.

2) **Cleanouts:** If dryer vents are manifolded to a common exhaust, provide an easily accessible means of cleanout.

3) **Drains:**

a) **Boot wash:** Provide each Boot wash station with a grated drain assembly.

b) **Vending Area:** Provide water connections and floor drain for ice machine.

c) **Centralized Laundry:** Provide water and drain connections for all washers.

d) **Scrub Room:** Provide each Scrub Room with easily maintainable drains.

C. **PLUMBING FIXTURES:**

1) **Commercial Plumbing Fixtures:**

a) **Shower Heads:** Provide tamper resistant showerhead at an elevation of 6'-6" A.F.F. in Sleeping Unit Bathroom.

b) **Utility Sink:** Contractor to furnish and install a stainless steel utility sink in each Centralized Laundry Room.

c) **Boot wash:** Each boot wash station shall consist of two freeze-proof hydrants located adjacent to drain. Provide two spray nozzles on flexible hoses per hydrant.

d) **Scrub Room:** Each rinsing station shall include a combination laundry tray and deep laundry sink with hot and cold water, spray nozzle on flexible hose.

D. **GAS PIPING:** Provide natural gas connection, where gas is available to site, in centralized laundry rooms. ~~</AITCOF></AITCCP>~~

3.8.AITCCP PLUMBING REQUIREMENTS – CENTRAL ENERGY PLAN (CCP)

A. **GENERAL:** Provide all necessary plumbing to allow for make-up water, maintenance, leakage and condensate drainage, blowdown drainage, and anything else necessary for a fully functional and maintainable CCP. ~~</AITCCP>~~

3.9. COMMUNICATIONS AND SECURITY SYSTEMS

A. **TELECOMMUNICATION SYSTEMS:** Provide telecommunication outlets per the applicable criteria based on functional purpose of the space within the building and in accordance with other provisions of this RFP.

1) **Cabling, Patch Panels & Connectors:** Provide voice and data connection capability to all workstations.

2) **CATV:** All CATV outlet boxes, connectors, cabling, and cabinets shall conform to the Technical Criteria for I3A unless noted otherwise. All horizontal cabling shall be homerun from the CATV outlet to the nearest telecommunications room. See paragraph 6.0 PROJECT SPECIFIC REQUIREMENTS for possible additional requirements.

B. MASS NOTIFICATION SYSTEMS: Provide Mass notification system in accordance with UFC 4-021-01.
<AITCOF>

3.9.AITCOF COMMUNICATIONS AND SECURITY SYSTEMS – BARRACKS/COMPANY OPERATIONS FACILITIES (B/COF)

A. TELECOMMUNICATION SYSTEMS:

1) Cabling, Patch Panels & Connectors:

- a) **Computer Learning Center:** The required connection capability in computer learning centers is a minimum of one voice outlet per room and one data outlet per occupant.
 - b) **Sleeping Unit:** Provide each bedroom with three 8-pin modular jacks in separate outlets.
 - c) **Platoon Classroom:** Provide a dual (voice and data) 8-pin modular jack outlet at the front of each partitioned area in each multipurpose room.
 - d) **Covered Training Area:** Provide cabling/outlets for 3 telephones.
- 2) **CATV:** Provide CATV connectivity in all multipurpose spaces, day rooms, computer learning centers and private offices.

B. AUDIO/VISUAL SYSTEMS & INFRASTRUCTURE:

1) Video Teleconferencing (VTC):

- a) **Platoon Classroom:** Provide a dual (fiber optic and 8-pin modular) jack outlet for video teleconferencing connectivity in each partitioned area of the multipurpose room.

C. SECURITY INFRASTRUCTURE/SYSTEMS:

- 1) **Intrusion Detection Systems (IDS):** IDS infrastructure shall consist of conduit, pull wire and outlet boxes. Outlet boxes are required for a control panel, balanced magnetic switch, motion sensor, and duress switch unless specified otherwise in paragraph 6.10. Coordinate system requirements with the Installation.
- a) **Arms Vault:** Provide infrastructure for an IDS for each Arms Vault. DOD ICIDS III is required for each arms vault. <AITCOF><AITBN>

3.9.AITBN COMMUNICATIONS AND SECURITY SYSTEMS – BATTALION HEADQUARTERS (BNHQ)

A. TELECOMMUNICATION SYSTEMS:

1) Cabling, Patch Panels & Connectors:

- a) **Classrooms:** Provide a dual (voice and data) 8-pin modular jack outlet at the front of each partitioned area in each classroom.
- 2) **CATV:** Provide CATV connectivity in all conference rooms and private offices.

B. AUDIO/VISUAL SYSTEMS & INFRASTRUCTURE:

- 1) **Projectors:** Provide an empty 1" conduit (with pull wire) above the ceiling from each GFGI ceiling mounted projector location to a wall mounted outlet box at the front of each classroom and conference room
- 2) **PA Systems:** Provide a zoned paging system throughout the facility and integrate with the telephone system. System may utilize mass notification amplifiers and speakers, but shall be overridden by the mass notification system if mass notification system is activated while the paging system is being utilized. System shall have a minimum capacity of eight zones. Zone facility per user requirements.
- 3) Video Teleconferencing (VTC):
 - a) **Conference Room:** Provide a dual (fiber optic and 8-pin modular) jack outlet for video teleconferencing connectivity in each conference room.
 - b) **Classrooms:** Provide a dual (fiber optic and 8-pin modular) jack outlet for video teleconferencing connectivity in each classroom.

C. SECURITY INFRASTRUCTURE/SYSTEMS:

1) **Security Observation System Infrastructure:** Install infrastructure to support Government furnished equipment including cameras, door alarms, and motion sensors. These devices will be utilized at all exterior entrances with the exception of utility room entrances. Infrastructure shall consist of conduit, pull wire and outlet boxes per user requirements. Conduits shall be homerun from outlet boxes for equipment connection to duty officer room. (Security Equipment Not in Contract) </AITBN><AITBDE>

3.9.AITBDE COMMUNICATIONS AND SECURITY SYSTEMS – BRIGADE HEADQUARTERS (BDE HQ)

A. TELECOMMUNICATION SYSTEMS:

1) **CATV:** Provide CATV connectivity in all conference rooms and private offices.

B. AUDIO/VISUAL SYSTEMS & INFRASTRUCTURE:

1) **Projectors:** Provide an empty 1" conduit (with pull wire) above the ceiling from each GFGI ceiling mounted projector location to a wall mounted outlet box at the front of each conference room.

2) **PA Systems:** Provide a zoned paging system throughout the facility and integrate with the telephone system. System may utilize mass notification amplifiers and speakers, but shall be overridden by the mass notification system if mass notification system is activated while the paging system is being utilized. System shall have a minimum capacity of eight zones. Zone facility per user requirements.

3) **Video Teleconferencing (VTC):** Provide a dual (fiber optic and 8-pin modular) jack outlet for video teleconferencing connectivity in each conference room.

C. SECURITY INFRASTRUCTURE/SYSTEMS:

1) **Security Observation System Infrastructure:** Install infrastructure to support Government furnished equipment including cameras, door alarms, and motion sensors. These devices will be utilized at all exterior entrances with the exception of utility room entrances. Infrastructure shall consist of conduit, pull wire and outlet boxes per user requirements. Conduits shall be homerun from outlet boxes for equipment connection to duty officer room. (Security Equipment Not in Contract) </AITBDE>

3.10. ELECTRICAL REQUIREMENTS

A. **GENERAL:** Select electrical characteristics of the power system to provide a safe, efficient, and economical distribution of power based upon the size and types of loads to be served. Use distribution and utilization voltages of the highest level that is practical for the load to be served. Consider the effect of nonlinear loads such as computers, other electronic equipment and electronic ballasts and accommodate as necessary. Provide transient voltage surge protection for B/COF, BNHQ and BDE HQ.

B. **POWER:** Provide power for all installed equipment including government furnished contractor installed and all GFGI equipment. Power poles are not allowed.

1) **Outlets:**

a) Provide 125-volt duplex receptacles per NFPA 70 in conjunction with the proposed equipment and furniture layouts, and as per other stated requirements elsewhere in the RFP.

b) In addition to receptacles required elsewhere in the RFP provide one 125-volt duplex receptacle per wall in all normally occupied spaces.

c) For housekeeping purposes provide a minimum of one 125-volt, duplex receptacle per corridor and a minimum of one 125-volt duplex receptacle on each wall within the lobby. No point along bottom of corridor or lobby walls shall be more than 25 feet from a receptacle.

d) Provide 125-volt duplex receptacles mounted adjacent to lavatories. Provide a minimum of one for every two adjacent lavatories. Each single lavatory shall also be provided a receptacle.

e) Provide a minimum of two 125-volt, duplex receptacles in each mechanical room in addition to NFPA 70 requirements. Provide a minimum of one 125-volt duplex receptacle in each electrical room.

f) **Vending Area:** Provide power receptacles for vending and ice machines.

C. LIGHTING LEVELS, FIXTURES & CONTROLS:

- 1) Provide interior lighting controls in accordance with ASHRAE 90.1.
- 2) Local manual controls shall supplement automatic controls in offices, large open work spaces, and specialized areas such as, conference rooms, computer learning centers, multipurpose spaces and covered assembly areas.
- 3) Electronic ballasts for linear fluorescent lamps shall be the high efficiency programmed start type. Provide lighting levels within +/- 10% of required lighting levels.
- 4) Illuminate mechanical and electrical to a level of 30 foot-candles.
- 5) **Physical Training Areas:** If PT areas are required by the RFP, PT Running Track and Pit shall be illuminated to a minimum level of 3 foot-candles and shall be switch operated.

D. GROUNDING: Provide grounding in accordance with NFPA 70 and the Technical Criteria for I3A. In addition raised flooring shall be grounded to the building's primary grounding electrode. <AITCOF>

3.10.AITBCOF ELECTRICAL REQUIREMENTS – BARRACKS/COMPANY OPERATIONS FACILITIES (B/COF)

A. POWER:

1) Outlets:

- a) **Reception/CQ Station:** Provide a 125-volt quadruplex receptacle on a dedicated circuit for the CQ station.
- b) **Centralized Laundry:**
 - (1) Provide power receptacles for all washers, dryers and vending machines.
 - (2) In each B/COF, consider washers and dryers to be continuous loads and size all branch circuits, feeders and distribution equipment accordingly. Provide each appliance its own dedicated branch circuit. The use of demand factors at any point in the distribution system for sizing conductors and distribution equipment for these appliances is prohibited.
 - (3) Provide electrical service dryers regardless of whether or not electric dryers are to be used.

B. LIGHTING LEVELS, FIXTURES & CONTROLS:

- 1) **Arms Vault:** Provide an un-switched vandal resistant fixture with emergency ballast at each arms vault entrance.
- 2) **Covered Assembly Areas:** Illuminate covered training areas to a level of 15 foot-candles.
- 3) **Sleeping Unit:** Illuminate bedrooms to a level of 15 foot-candles.
- 4) **Lobby:** Illuminate lobby to a level of 10 foot-candles.
- a) **Reception/CQ Station:** Illuminate CQ station within the first floor lobby to 30 foot-candles.
- 5) Illuminate arms vault, computer learning center, multipurpose space, company supply, day room, weapons cleaning to a level of 30 foot-candles. </AITCOF><AITBN>

3.10.AITBN ELECTRICAL REQUIREMENTS – BATTALION HEADQUARTERS (BNHQ)

A. LIGHTING LEVELS, FIXTURES & CONTROLS:

- 1) **Supply Rooms:** Illuminate supply to a level of 30 foot-candles.
- 2) **Lobby:** Illuminate lobby to a level of 20 foot-candles.
- 3) Provide lighting compatible with security cameras and security requirements. </AITBN><AITBDE>

3.10.AITBDE ELECTRICAL REQUIREMENTS – BRIGADE HEADQUARTERS (BDE HQ)

A. LIGHTING LEVELS, FIXTURES & CONTROLS:

- 1) **Supply Rooms:** Illuminate supply rooms to a level of 30 foot-candles.
- 2) **Lobby:** Illuminate lobby to a level of 20 foot-candles.
- 3) Provide lighting compatible with security cameras and security requirements. </AITBDE>

3.11. HEATING VENTILATING AND AIR CONDITIONING (HVAC) REQUIREMENTS<AITCOF>

3.11.AITBCOF HEATING, VENTILATING & AIR-CONDITIONING – BARRACKS/COMPANY OPERATIONS FACILITIES (B/COF)

A. HVAC DESIGN CRITERIA:

- 1) **Unit Location and Access:** Locate all sleeping unit HVAC in utility closets accessible only through a corridor access door. Access for maintenance shall not require entry into the sleeping unit. Locate air filters in duct mounted filter boxes within the utility closet. All sleeping unit HVAC units shall have piping and duct connections that allow quick and easy removal and replacement of individual units.
- 2) **Ventilation:**
 - a) **Sleeping Units:** Positively ventilate each sleeping unit using dedicated outdoor air units. Dedicated outdoor air units (DOAUs) shall continuously supply dehumidified, tempered air ducted directly to each sleeping unit from DOAU. Supply air conditions from DOAU shall be between 68 and 75 degree F dry bulb and no greater than 48 degree F dew point. Supply quantity shall be 40 cfm per sleeping unit. (Note: This exceeds ASHRAE 62.1 but provides compliance with IMC chapter 4 and maintains slight building positive pressurization with respect to dwelling unit exhaust rate of 25 cfm). DOAU unit shall be direct expansion (DX) type and cooling/dehumidification shall be available 24/7/365. DOAU units shall be minimum 14 SEER (3.52 COP) and equipped with hot gas reheat and auxiliary heat/ reheat coil. Refer to chapter 6 for site specific constraints. The number of exhaust fans and DOAUs shall be the same, and exhaust fans and DOAUs shall be arranged for and shall include exhaust air energy recovery. Provide exhaust and DOAU systems with variable frequency drives (VFDs) and with a control logic that provides reduced ventilation rates during periods of low interior humidity and still meet minimum ASHRAE 62.1 requirements.
 - b) **Corridors:** Ventilate B/COF corridors per ASHRAE 62.1 by supply from the dedicated outdoor air unit(s).
- 3) **Exhaust:**
 - a) **Sleeping Units:** Sleeping unit exhaust shall be 25 cfm continuous through a bathroom exhaust.
 - b) **Centralized Laundry:** Provide vent connections for all dryers and exhaust to the exterior. Vent all dryers according to all applicable criteria and manufacturer's installation instructions

B. TEMPERATURE CONTROLS:

- 1) **Sleeping Units:** Control sleeping unit room temperature through the direct digital control (DDC) system. Each sleeping unit shall have a heating/cooling unit. Occupant control will include on/off fan selection and an occupant temperature setpoint adjustment mechanism that allows +/- 2 degrees F of adjustment from the DDC programmed set points of 70 degrees F heating and 75 degrees F cooling. Additionally the DDC controls shall monitor each sleeping unit for sub-cooling. The DDC system shall record an alarm event if the space temperature drops below 71 degrees F (adjustable) when the outside air is greater than 85 degrees F (adjustable). Occupant control shall also include ability to select heating or cooling mode. HVAC system shall be able to provide for year round heating or cooling in individual sleeping units as selected by the occupants. Occupant controller shall not have any provisions for occupant adjustment beyond that stated in this paragraph. Any further adjustments beyond as described shall be by authorized personnel only.</AITCOF><AITBN>

3.11.AITBN HEATING, VENTILATING, & AIR-CONDITIONING – BATTALION HEADQUARTERS (BNHQ)

A. HVAC DESIGN CRITERIA:

- 1) **Unit Location and Access:** In headquarters building locate all air handling units in mechanical rooms accessible only through an exterior door. Locate air filters in the mechanical room.
- 2) **Ventilation:** Air handling units shall run continuously during occupied hours. Similarly, outdoor ventilation air required by ASHRAE 62.1 shall be continuous during occupied hours.

B. ZONING:

- 1) **Conference Rooms:** Separately zone each conference room.
- 2) Base other space zoning on exterior envelope exposures. Where VAV systems are used, limit individual zones to a maximum of 2,500 cfm.
- 3) **Classrooms:** Separately zone each classroom. ~~</AITBN><AITBDE>~~

3.11.AITBDE HEATING, VENTILATING & AIR-CONDITIONING – BRIGADE HEADQUARTERS (BDE HQ)

A. HVAC DESIGN CRITERIA:

- 1) **Unit Location and Access:** In headquarters building locate all air handling units in mechanical rooms accessible only through an exterior door. Locate air filters in the mechanical room.
- 2) **Ventilation:** Air handling units shall run continuously during occupied hours. Similarly, outdoor ventilation air required by ASHRAE 62.1 shall be continuous during occupied hours.

B. ZONING:

- 1) **Conference Rooms:** Separately zone each conference room.
- 2) Base other space zoning on exterior envelope exposures. Where VAV systems are used, limit individual zones to a maximum of 2,500 cfm. ~~</AITBDE><AITCCP>~~

3.11.AITCCP HEATING, VENTILATING & AIR-CONDITIONING – CENTRAL ENERGY PLANT (CCP)

A. CENTRAL ENERGY PLANT:

- 1) Design the CCP to support the peak block load of all connected buildings. If heating is provided for domestic water or building heat, provide low temperature hot water. Distributed steam or high temperature hot water shall not be used except in climate zones 6 and 7. Central plants providing heat source/heat sink for water source heat pumps are acceptable system types.
- 2) Ventilate the CCP in accordance with ASHRAE 55 and ASHRAE 15. Provide space heat for freeze protection. No space within the CCP shall be air conditioned.
- 3) Provide multiple units for major equipment components such as chillers, boilers, pumps, and cooling towers so that no more than 50% capacity is lost in the event of a single failure. However, backup or spare capacity is not authorized. Design system in accordance with ASHRAE Handbooks.
- 4) Enclose equipment located outside in a screened equipment yard. Consider sound/noise in the selection of equipment. All hydronic systems shall have provisions for chemical treatment. Open loop systems shall incorporate continuous, automatic water treatment. ~~</AITCCP>~~

3.12. ENERGY CONSERVATION REQUIREMENTS

A. ENERGY PERFORMANCE: ~~<FY12>~~Design the building, including the building envelope, HVAC systems, service water heating, power, and lighting systems to achieve an energy consumption that is at least 40% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007. ~~</FY12><FY13>~~The building shall meet the requirements of ASHRAE Standard 189.1–2009 with the only exception being the renewable energy components of Section 7 (Par 7.3.2 and 7.4.1.1). ASHRAE 189.1 is a comprehensive standard that covers building features beyond energy efficiency such as sustainability, water use efficiency, and indoor air quality. Design the building, including the building envelope, HVAC systems, service water heating, power, and lighting systems to achieve an energy consumption that is at least 40% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007. ~~</FY13>~~Document compliance with the above energy performance utilizing the methodology described in ASHRAE 90.1, Appendix G as discussed in section 01 33 16 Design After Award. (see paragraph 5.9 Energy Conservation) (Note: Plug loads shall be included in building energy modeling but are subtracted in the final calculation of Energy Performance. See section “Design After Award” for additional guidance.) Gas fired boilers and water heaters shall be minimum 90% efficient at operating conditions. ~~<SOLARWATER_HEATING_AIT>~~

1) **Solar Water Heating:** In addition, design and construct the building to provide 30% of domestic hot water by use of solar hot water system. **</SOLARWATER_HEATING_AIT><AITCOF>**

Comment [DEC9]: [Note to Susan: Provide a radio button to switch on or off Solar Water Heating requirement Project RFP Preparer to consult SWF COS Energy Manager (Bruce McMillan – 817 886-1810) to determine if solar water heating is LCCE for project location.]

3.12.AITBCOF ENERGY CONSERVATION REQUIREMENTS – BARRACKS/COMPANY OPERATIONS FACILITIES (B/COF)

A. **LOAD & SET-POINT SCHEDULES:** The following facility schedules must be used in all facility energy simulations for purposes of documenting compliance with energy performance requirement. The peak values indicated for each schedule shall be used for the baseline energy calculation. The hourly peak fraction values for various load components for each schedule shall be used for both the baseline and proposed design energy calculations.

1) **AIT B/COF Common Area Internal Load Schedules**

Hr	Occupancy			Lighting			Washer/Dryer Use			Washer SHW		
	Wk	Sat	Sun	Wk	Sat	Sun	Wk	Sat	Sun	Wk	Sat	Sun
1-6	0.00	0.00	0.00	0.30	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00
7-10	0.20	0.20	0.20	0.30	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00
11-18	0.00	0.00	0.00	0.30	0.30	0.30	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.80	0.80	0.80	0.00	0.00	0.00	0.00	0.00	0.00
20-21	0.20	0.20	0.20	0.80	0.80	0.80	0.50	0.50	0.50	0.50	0.50	0.50
22-23	0.40	0.40	0.40	0.80	0.80	0.80	1.00	1.00	1.00	1.00	1.00	1.00
24	0.20	0.20	0.20	0.80	0.80	0.80	0.50	0.50	0.50	0.50	0.50	0.50
Peak	57 occ			1.0 W/ft ²			147 kW			1140 gal/hr @ 110 (°F)		

(Peak values are total for common areas combined per 300 person company)

2) **AIT B/COF Sleeping Unit Internal Load Schedules**

Hr	Occupancy			Lighting			Plug Loads			Service Hot Water		
	Wk	Sat	Sun	Wk	Sat	Sun	Wk	Sat	Sun	Wk	Sat	Sun
1-5	0.80	0.75	0.75	0.20	0.20	0.20	0.20	0.20	0.20	0.00	0.00	0.00
6	0.70	0.65	0.75	0.40	0.30	0.20	0.20	0.20	0.20	0.10	0.10	0.10
7	0.60	0.60	0.70	0.70	0.50	0.30	0.40	0.35	0.20	0.40	0.40	0.40
8	0.50	0.50	1.00	0.50	0.50	0.50	0.40	0.40	0.40	0.20	0.20	0.20
9	0.25	0.25	0.00	0.20	0.20	0.20	0.30	0.40	0.40	0.00	0.00	0.00
10-17	0.20	0.20	0.20	0.20	0.20	0.20	0.30	0.30	0.30	0.00	0.00	0.00
18	0.30	0.30	0.30	0.50	0.50	0.50	0.50	0.50	0.50	0.10	0.10	0.10
19	0.50	0.30	0.30	0.70	0.70	0.70	0.50	0.50	0.50	0.10	0.10	0.10
20	0.50	0.50	0.50	0.70	0.70	0.70	0.60	0.50	0.50	0.10	0.10	0.10
21	0.70	0.50	0.50	0.70	0.70	0.70	0.60	0.50	0.50	0.00	0.00	0.00
22	0.70	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.00	0.00	0.00
23	0.80	0.75	0.75	0.40	0.40	0.40	0.40	0.50	0.50	0.00	0.00	0.00
24	0.80	0.75	0.75	0.20	0.20	0.20	0.20	0.20	0.20	0.00	0.00	0.00
Peak	3 occ/unit			1.1 W/ft ²			1.7 W/ft ²			40 gal/hr		

3) **AIT B/COF Sleeping Unit Thermostat Set-Point Schedules**

Hr	Heating (°F)			Cooling (°F)		
	Wk	Sat	Sun	Wk	Sat	Sun
>						
1-24	68	68	68	75	75	75

4) **AIT B/COF Unoccupied Zones (ie stairwells, mechanical rooms) Thermostat Set-Point Schedules**

Hr	Heating (°F)

Hr	Heating (°F)		
	Wk	Sat	Sun
>			
1-24	55	55	55

</AITCOF>

3.13. FIRE PROTECTION REQUIREMENTS

A. FIRE SUPPRESSION SYSTEMS: Design fire suppression in accordance with the latest edition of UFC 3-600-01.

B. FIRE DETECTION AND ALARM SYSTEMS: The fire alarm system installation shall be supervised by a National Institute for Certification of Engineering Technologies (NICET) 3 (minimum) technician.

1) Software: All software, software locks, special tools and any other proprietary equipment required to maintain, add devices to or delete devices from the system, or test the Fire Alarm system shall become property of the Government and shall be furnished to the Contracting Officer's Representative prior to final inspection of the system. </AITCOF>

3.13.AITBCOF FIRE PROTECTION REQUIREMENTS – BARRACKS/COMPANY OPERATIONS FACILITIES

A. FIRE SUPPRESSION SYSTEMS:

1) Fire Sprinkler Systems: The B/COF shall be classified as mission essential and shall be provided with sprinkler protection regardless of other criteria or code provisions. Protect the facility throughout by a complete automatic sprinkler system.

B. FIRE DETECTION AND ALARM SYSTEMS: Fire alarm systems shall be addressable type with addressable devices. Coordinate the type, function and location of the fire alarm annunciator with the local authority having jurisdiction.

1) Smoke Detectors: Proved smoke detectors in all bedrooms. <AIT_SMOKE1> Smoke detectors in bedrooms shall be monitored. Tampering with a smoke detector shall send a trouble signal. Trouble signals shall be transmitted to the fire department. </AIT_SMOKE1><AIT_SMOKE2> Smoke alarm signals shall not be transmitted to the fire department. </AIT_SMOKE2><AIT_SMOKE3> Smoke alarm signals shall be transmitted as a supervisory signal to the fire department. </AIT_SMOKE3><AIT_SMOKE4> Smoke alarm signals shall be transmitted as an alarm signal to the fire department. </AIT_SMOKE4></AITCOF>

3.14. SEE PARAGRAPH 6.14 SUSTAINABLE DESIGN – NOT USED

3.15. SEE PARAGRAPH 6.15 ENVIRONMENTAL – NOT USED

3.16. SEE PARAGRAPH 6.16 PERMITS – NOT USED

3.17. SEE PARAGRAPH 6.17 DEMOLITION – NOT USED`

3.18. SEE PARAGRAPH 6.18 ADDITIONAL FACILITIES – NOT USED

3.19. EQUIPMENT AND FURNITURE REQUIREMENTS

3.19.1. FURNISHINGS

A. FURNITURE LIST/CHARTS:

1) Furniture List:

a) Toilet/Showers: Provide one built-in 18 inch deep by 36 inch long teak wooden bench adjacent to the shower stall. Mount benches on powder-coated steel pedestals permanently anchored to the floor.

b) **Recyclables Storage:** Provide the necessary number of bins for metal/plastic/glass/paper/ cardboard items. Items may be combined to reduce the number of bins if approved by the installation and user. If the installation has a single stream recycling system, provide a minimum of two bins to cover all items.

B. **CASEWORK:** Provide cabinets complying with Architectural Woodwork Institute Quality Standards.

C. **WINDOW TREATMENTS:** Provide horizontal mini blinds at all exterior windows. Maintain uniformity of window covering color and material to the maximum extent possible throughout each building. <AITCOF>

3.19.1.AITBCOF FURNISHINGS – BARRACKS/COMPANY OPERATIONS FACILITIES (B/COF)

A. **FURNITURE LIST/CHARTS:**

1) **Furniture Chart:**

B/COF FURNITURE CHART		
Description	Comments	Furniture Required
Commander (CO)	Private Office	U-shaped executive desk with two pedestals, hutch, one 4-drawer lateral file, two guest chairs, one executive chair
Executive Officer (XO)	Private Office	L-shaped double pedestal desk unit, hutch, one 4-drawer lateral file, two guest chairs, one task chair
Office 1 (1 ST SGT)	Private Office	L-shaped double pedestal desk unit, hutch, two 4-drawer lateral files, two guest chairs, one executive chair
Office 2 (OPS SGT)	Private Office	L-shaped double pedestal desk unit, hutch, two 4-drawer lateral files, two guest chairs, one task chair
PS Office	48 NSF Open Workstations, Waiting Area	Three systems furniture workstations with work surfaces, file pedestals, and overhead storage, three task chairs, four guest chairs
Waiting Area	48 NSF Open Workstations, Waiting Area	Two systems furniture workstations with work surfaces, file pedestals, and overhead storage, two task chairs, two guest chairs, three waiting area chairs, one side table
Computer Learning Center	Classroom	24 computer carrels, one storage cabinet, 24 task chairs
Multi-Purpose	Classroom	100 tablet-arm chair desks,
Company Supply	Storage	One task chair, 19 heavy-duty shelving units, one 36 x 72 table
Lobby-1st floor	CQ and Building Reception Area	One task chair & six guest chairs
Profile Recovery	Exercise Room	Exercise equipment
Day Room		7-seat upholstered arrangement with side tables, 36" round table with four guest chairs, entertainment system storage, pool table and/or table tennis
Lobby - 2nd/3rd floor	Waiting Area	7-seat upholstered arrangement with side tables
Sleeping Module	Dormitory Room	Two beds, two nightstands, two desks with hutch, two desk chairs, two lamps

B. **WINDOW TREATMENTS:** Provide room darkening mini blinds in B/COF barracks areas.

<AITCOF><AITBN>

3.19.1.AITBN FURNISHINGS – BATTALION HEADQUARTERS (BNHQ)

A. FURNITURE LIST/CHARTS

1) Furniture Chart:

BNHQ FURNITURE CHART		
Description	Comments	Furniture Required
Battalion Commander	Private Office	L-shaped executive desk with two pedestals, two 4-drawer lateral files, one conference table, four conference chairs, two guest chairs, one executive chair
Executive Office (BNXO, CSM)	Private Office	L-shaped executive desk with two pedestals, one double pedestal credenza, hutch, two 4-drawer lateral files, two guest chairs, one managerial chair
Office 1 (S-1, S-2, S-3, S-4)	Private Office	L-shaped executive desk with two pedestals, one double pedestal credenza, hutch, one 4-drawer lateral file, two guest chairs, one managerial chair
Office 2 (Chaplain)	Private Office	L-shaped executive desk with two pedestals, one double pedestal credenza, hutch, one 4-drawer lateral file, one guest chair, one 3-seat upholstered arrangement, one managerial chair
Office 3 (Chaplain Asst)	Office	L-shaped desk with two pedestals, two 4-drawer lateral files, two guest chairs, one task chair
Personnel and Admin	48 NSF Open Workstations	Nine (9) Systems furniture workstations with work surface, file pedestals, and overhead storage, two 4-drawer lateral files per workstation, one guest chair and one task chair per workstation
Training and Operations Area	48 NSF Open Workstations	Three (3) Systems furniture workstations with work surface, file pedestals, and overhead storage, two 4-drawer lateral files per workstation, one guest chair and one task chair per workstation
Supply and Logistics	48 NSF Open Workstations	Two (2) Systems furniture workstations with work surface, file pedestals, and overhead storage, two 4-drawer lateral files per workstation, one guest chair and one task chair per workstation
Instructor Work Space	48 NSF Open Workstations	Three (3) Systems furniture workstations with work surface, file pedestals, and overhead storage, two 4-drawer lateral files per workstation, one guest chair and one task chair per workstation
Intelligence Area	48 NSF Open Workstations	Three (3) Systems furniture workstations with work surface, file pedestals, and overhead storage, two 4-drawer lateral files per workstation, one guest chair and one task chair per workstation, four 4-drawer safes.
Executive Reception (Personnel and Admin)	Reception Desk	Reception furniture workstation with work surfaces, transaction top, file pedestals, and overhead storage, one task chair, four reception chairs, one side table
Classroom	Multi-Purpose	200 tablet-arm chair desks, movable partitions to divide large classroom space into three equally-sized spaces
Conference Room	Commander's Conference Rm	Boat-shape 12 eight side chairs, one small storage credenza
Lobby	Waiting Area	Six guest chairs, two side tables
Staff Duty/Message	Reception Desk	One task chair, one 4-drawer lateral file
Supply Storage	Storage	Two lockable storage cabinets

</AITBN><AITBDE>

3.19.1.AITBDE FURNISHINGS – BRIGADE HEADQUARTERS (BDE HQ)

A. FURNITURE LIST/CHARTS:

1) **Furniture Chart:**

BDE HQ FURNITURE CHART		
Description	Comments	Furniture Required
Senior Executive Office (CO)	Private Office	L-shaped executive desk with two pedestals, two 4-drawer lateral files, one conference table, four conference chairs, two guest chairs, one executive chair
Executive Office (BDEXO, CMD SGT MAJ)	Private Office	L-shaped executive desk with two pedestals, one 4-drawer lateral file, one book case, two guest chairs, one managerial chair
Office 1 (S-1, S-2, S-3, S-4)	Private Office	L-shaped executive desk with two pedestals, one double pedestal credenza, hutch, one 4-drawer lateral file, two guest chairs, one managerial chair
Office 2 (Chaplain)	Private Office	L-shaped executive desk with two pedestals, hutch, one 4-drawer lateral file, two guest chairs, one 2-seat upholstered arrangement, one managerial chair
Office 3 (Chaplain Asst)	Office	L-shaped desk with two pedestals, two 4-drawer lateral files, two guest chairs, one task chair
Open Workstations (Personnel and Admin, Training and Ops, Supply and Logistics, Intelligence)	48 NSF Open Workstations	Systems furniture workstation with work surfaces, file pedestals, and overhead storage, two 4-drawer lateral files per workstation, one guest chair, one task chair
Executive Reception (P&A)	Reception Desk	Reception furniture workstation with work surfaces, transaction top, file pedestals, and overhead storage, one task chair, six reception chairs, two side table
Conference Room	Commander's Conference Room	Boat-shaped conference table, 14 conference chairs, one small storage credenza, eight side chairs
Lobby	Waiting Area	13 guest chairs, five side tables
Staff Duty/Message	Reception Desk	One task chair, one 4-drawer lateral file
Document Storage	Storage	Five lockable storage cabinets
Supply Storage	Storage	Three lockable storage cabinets

</AITBDE>

3.19.2. EQUIPMENT

A. **AUDIO/VISUAL EQUIPMENT:**

1) **Projectors:**

- a) **Projection Screens:** Screens will be GFGI power operated 8'-0" x 6'-0" ceiling flush mounted projection screens at front of the classroom. Projection screens shall be flame retardant, mildew resistant, and white matte with black masking borders.
- b) **Projector Mounting System:** A low profile ceiling mounted projector mount system with each projection screen will be GFGI. Ceiling mount shall consist of a steel ball joint and universal projector bracket. Ceiling mount shall project a maximum 6 inches below finished ceiling height, and shall securely attach to ceiling and structure above. Steel ball joint shall attach to the universal projector bracket with twist-lock engagement. Mount shall provide up to 30° roll or pitch adjustment and 360° yaw adjustment at ball joint. Two setscrews lock ball joint in position. Projector mount shall be capable of supporting a 26 pound load.

B. **RESIDENTIAL APPLIANCES:**

- 1) **Command Suite:**
- a) **Coffee Bar:** Microwave shall be GFGI.
- C. **COMMERCIAL EQUIPMENT:**
- 1) **Vending Equipment:**
- a) **Vending Machines:** Vending machines shall be full-size and GFGI.
- b) **Ice Machines:** Shall be GFGI. **<AITCOF>**

3.19.2.AITBCOF EQUIPMENT - BARRACKS/COMPANY OPERATIONS FACILITIES (B/COF)

- A. **COMMERCIAL EQUIPMENT:**
- 1) **Laundry Equipment:** Each laundry room shall accommodate the following:
 - a) **Washers:** Washers shall be heavy-duty, extra capacity, commercial washers. GFGI
 - b) **Dryers:** Dryers shall be heavy-duty, extra capacity, double stacked commercial dryers. GFGI
 - c) **Fixed Tables:** Contractor to furnish and install fixed heavy gauge stainless steel clothes folding/hanging tables measuring 2 feet deep by 5 feet wide.
 - d) **Laundry Supplies Vending Machines:** Shall be GFGI. **</AITCOF>**

3.20. FACILITY SPECIFIC REFERENCES: (NOT USED)

SAMPLE