DEPARTMENT OF THE ARMY
ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
600 ARMY PENTAGON
WASHINGTON DC 20310-0600

DAIM-ZA

JAN 18 2008

MEMORANDUM FOR

Commander, US Army Corps of Engineers (CEMP), 441 G St NW, Washington, DC 20314
Installation Management Command (IMCOM), 2511 Jefferson-Davis Highway, Arlington, VA 22202

SUBJECT: Army Standard for Basic Training and One Station Unit Training (BT/OSUT)

1. The enclosed Army Standard for design and construction of BT/OSUT complexes are hereby approved for implementation. The standards apply to Active and Reserve Component facilities on Army Installations. Only the Assistant Chief of Staff for Installation Management has authority to approve exceptions to this standard. Waivers from the Army Standard must be approved in accordance with the DAIM-ODF memorandum, Subject: Waiver Process for Facility Army Standards and Standard Designs, latest edition.

2. These standards are mandatory for Military Construction, Army (MCA) projects in FY08 and beyond. Designs based on these Army Standards, Standard Designs and Design Criteria will be developed consistent with MILCON transformation methodologies.

3. The co-chairs for Facilities Design Team (FDT) for BT / OSUT complexes are Mr. Lee Jorde, DAMO-TRI, lee.jorde@hqda.army.mil, 703-614-9813 and Mr. Charles Huffman, DAIM-ISH, charles.huffman@hqda.army.mil, 703-601-2504.

4. The FDT POCs at the USACE Center of Standardization are Mr. Bill Workman, CESWF, BT/OSUT, william.k.workman@swf02.usace.army.mil, 817-886-1715 and Ms. Lisa Bobotas, Dining Facilities, CENAO, lisa.a.bobotas@nao02.usace.army.mil.

ROBERT WILSON
Lieutenant General, GS
Assistant Chief of Staff
for Installation Management

Enclosure

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The Army Standard for Basic Training and One Station Unit Training (BT/OSUT) Complexes

Description:

Basic Training and One Station Unit Training (BT/OSUT) complexes are required by the Army to encompass living, dining, training and administrative/command operations. BT/OSUT complexes are comprised of Barracks / Company Operations Facilities (B/COF), Dining Facility (DFAC), Battalion Headquarters (BNHQ), and Lawn Equipment Storage Buildings (LEB). These facilities, with outdoor training areas, and any additional support facilities, are arranged on the site as a unit to allow the battalion to live, eat, train and work together. This statement of requirements does not address facilities for permanent party personnel; those are defined in other Department of the Army standards.

B/COF is comprised of sleeping, latrine, classrooms, storage, and company operations components. DFAC is comprised of delivery, storage, preparation, cleaning, serving, seated dining, and field feeding components. BNHQ is comprised of administration, special functions, storage and classroom components for personnel assigned to work in those facilities. LEB provides storage for maintenance equipment and materials. The site includes a running track, physical training (PT) pits, vehicular and service access drives and parking areas.

Applicability:

- The Army Standard applies to Active and Reserve Component facilities on Army Installations.
- The Army Standard is mandatory for all construction projects effective in FY08 and beyond.
- BT/OSUT projects must be reviewed by the USACE designated Center of Standardization (COS) for compliance with the Army Standard.
- All USACE geographic districts incorporate the mandatory design features described herein in close coordination with the COS for BT/OSUT complexes.
- This Army Standard supersedes space allowance standards contained in AR 405-70 and serves as the primary authority for BT/OSUT facilities worldwide.

Waivers:

- Only the Assistant Chief of Staff for Installation Management has the authority to approve exceptions to the Army Standard.
- Waivers from the Army Standard must be requested in accordance with the AR 420-1 and the Army Facilities Standardization Program Charter, latest edition.
- All waiver requests to the Army Standard require COS conflict resolution prior to submission by the Garrison Commander through the IMCOM Region to HQ IMCOM.
- Garrison Army Standard waiver request submissions must be received in sufficient time to allow completion of Facility Design Team review and development of recommendations or courses of action for the Army Facilities Standardization Committee to consider prior to implementation into project design. Late submissions or project delays are not sufficient stand alone justification for accelerated review or other dispensation to meeting the Army Standard contained herein.
- All waiver requests shall include compelling rationale of functional and operational deviations to include substantiating documentation in sufficient detail for the Army to assess implications of approving the waiver. All HQDA approved waivers shall be documented in installation master plans thereby serving as the installations modified standards.

THE ARMY STANDARD FOR BT/OSUT COMPLEXES

ITEM	MANDATORY CRITERIA
Gross Area of Facilities	**BT/OSUT COMPLEX FACILITIES MAXIMUM GROSS AREA:** GSF (Gross Square Feet) Deviation: The facility constructed gross area shall not exceed 105% of the space allocation set forth in this document to accommodate site, construction, or environmental factors. B/COF 64,700 GSF (each, five B/COF per BN) BNHQ 23,500 GSF (one per BN) 1300 PN DFAC 33,760 GSF (one BN serving capacity) 2600 PN DFAC 62,390 GSF (two BN serving capacity) LEB 2,000 GSF (serves one BN) PN = personnel The Army Standard computes all square footage at full scope. There are no areas computed at one-half the actual floor area. The requirement is based on population and whether installation has existing facilities on hand, or master plan involves constructing more than a battalion size BT/OSUT complex. B/COF and DFAC square footage listed above include covered training/assembly and queuing areas respectively.
Energy Policy Act 2005 (EPACT 05) / Executive Order 13423	BT/OSUT Complex facilities shall be designed in compliance with requirements for federal facilities IAW EPACT 05 and E.O. 13423.
Sustainability	BT/OSUT Complex facilities shall be designed to meet current sustainable development and design policy requirements as established by the Department of the Army.
Antiterrorism /Force Protection	Facilities shall meet security requirements in accordance with (IAW) UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings, latest edition.
Technical Design Criteria and Standards	International Building Code (IBC) except where Installation Design Guide (IDG) or military standards are required to meet specific operational needs.
Outdoor Training Areas	The minimum mandatory exterior training areas include: • a closed quarter mile running track (one per BN) • One physical training pit per company (five per BN) • Four / 4-station pull-up bar sets per company (twenty per BN). PT pit shall have a minimum size of 18,500 Square Feet (SF).

Exterior Lighting	Exterior lighting systems shall be provided for parking areas, sidewalks, interconnecting buildings, service yards, service drives, outdoor training areas, and any required security lighting.
Parking	Private Operated Vehicle (POV) Parking: Parking shall be provided for BNHQ staff, Company Cadre within B/COF, DFAC staff, government and service vehicles, and visitors. Total parking space allocation for the complex shall be designed based on current Tables of Distribution and Allowances (TDA) plus 120% of maximum shift for DFAC.
Accessibility	BNHQ – Shall comply with the Americans with Disabilities Act (ADA) Accessibility Guidelines (ADAAG) for Buildings and Facilities. DFAC – Administrative areas (including approach to the public entrance) shall be ADA compliant. B/COF – No ADA compliance requirement.
Telecommunications	• Telecommunications infrastructure will meet the United States Army Information Systems Engineering Command (USAISEC) Technical Guide for Installation Information Infrastructure Architecture (I3A) and American National Standards Institute / Telecommunications Industry Association / Electronic Industries Alliance (ANSI/TIA/EIA) 568 and 569 requirements. • The facility must connect to the Installation telecommunications (voice and data) system through the outside plant (OSP) underground infrastructure per I3A guidance. Connections to OSP cabling system shall be from each facility main cross connect located in main telecommunications room or telecommunications equipment room to closest OSP access point. • Telecommunications outlets will be provided IAW the Technical Guide for Installation Information Infrastructure Architecture (I3A Guide). Telecommunications outlets will be provided per the I3A technical guide based on functional purpose of the various spaces with the facility as modified by user special operational requirements. • A Telecommunications Room (TR) shall be provided for the voice and data network. There shall be a minimum of one TR on each floor, designed in accordance with the I3A Guide and ANSI/EIA/TIA-569-B.
Maximum Site Planning Distances	Maximum distances between facilities and supporting amenities: • B/COF to DFAC – 1,680 feet • B/COF to PT Pits and Track – 1,200 feet • BNHQ to DFAC – 1,800 feet • B/COF to BNHQ – 1,680 feet

Signage	Signage shall be provided for all public amenities.

BARRACKS / COMPANY OPERATIONS FACILITY (B/COF)

ITEM	MANDATORY CRITERIA
Capacity vs. Population	Each B/COF shall be designed for a single training company of 240 personnel in 4 – 60 PN Sleeping Bays. Periodic events require a surge capacity of 72 PN.
Gross Area of Facility	Barracks / Company Ops 54,000 GSF Covered Training / Assembly Area 10,700 GSF Total per B/COF building 64,700 GSF
Sleeping Area	• Each Sleeping Bay shall provide minimum 5,350 GSF sleeping area. • HVAC system shall avoid "sweeping" room return or exhaust air over multiple beds to reduce the likelihood of spreading respiratory infections. Return air shall flow over no more than two (2) bed rows in the sleeping bay.
Covered Training	Provide covered training area for soldiers to perform calisthenics during periods of inclement weather. A total of 10,700 GSF shall be provided for each B/COF (2 covered training areas- 5,350 GSF for each training area). A minimum of five (5) public telephone stations will be provided in the rear Covered Training area for each B/COF.
Private / Semi-Private Offices	Provide private offices for: (total = eight private offices per B/COF) Command Offices- Company Commander (150 NSF); Executive Officer (110 NSF); Training Office (110 NSF); 1st Sgt (110 NSF) and four (4) Drill Instructor Offices (i.e.: 3 Drill Instructors per office) (250 NSF per office). Each Drill Instructor office shall have a private toilet and shower.
Classrooms	Provide classrooms adjacent to each sleeping bay and capable of training a sixty (60) person platoon.
Laundry	Provide a total of thirty-six (36) washers and forty-eight (48) stackable dryers per B/COF.
Arms Vault	Provide arms vault in accordance with AR 190-11 and DoD Regulation 5200.1-R, Information Security Program. Vault door shall incorporate a steel Dutch-door type day-gate with a steel issue shelf built into lower leaf of day-gate. A minimum of 380 NSF shall be provided in the vault.
Reception CQ	Provide a minimum 250 NSF reception area provided near the main building entrance. Reception CQ desk shall have an unobstructed view of the main building entrance.

Luggage Storage	Provide secure storage for four (4) luggage rooms. Each room shall be a minimum 90 NSF and capable to store soldier's suitcases.
Mask Storage	Provide a minimum 200 NSF room for the storage of 288 gas mask.
Supply	Provide a minimum 800 NSF for storage of general equipment and supplies.
Secure Storage	Provide a minimum 245 NSF for the storage of night vision goggles.
Scrub Room	Large sinks and tables are used to clean field equipment and TA-50 gear. A total of 960 NSF shall be provided (two (2) rooms x 480 NSF provided in each room).
TA-50 Storage	Provide four (4) storage rooms to accommodate 120 TA-50 gear for a total of 640 NSF (160 x 4).
Multi-Purpose Room	Provide an open space to accommodate multi-use functions, such as; training, recreational, social and other gatherings. A total of 1,780 NSF shall be provided (two (2) rooms x 890 NSF provided in each room).
Public Restrooms	Separate male and female restrooms shall be provided on the first floor for visitors, administrative personnel, and building occupant use. Each restroom shall have a minimum of one (1) shower.
Janitor Closet	Provide a minimum 30 NSF janitor closet with built-in sink per floor.

BATTALION HEADQUARTERS (BNHQ)

ITEM	MANDATORY CRITERIA
Gross Area of Facility	Battalion Headquarters 23,500 GSF Assembly Area 0 GSF Total BNHQ 23,500 GSF
Secure Communications Room	Provide a secure communications room to accommodate Secret Internet Protocol Router Network (SIPRNET) and telecommunications equipment.
Private / Semi-Private Offices	Provide private offices for: (total = eight (8) private offices per BNHQ) Battalion Commander (200 NSF) with a Closet (12 NSF minimum); Executive Officer (150 NSF); CSM (150 NSF); S-1 (110 NSF); S-2 (110 NSF); S-3 (110 NSF); S-4 (110 NSF); Chaplain (150 NSF)

Private / Semi-Private Offices continued	Provide semi-private offices for: (total = three (3) semi-private offices per BNHQ) S-2/S-3 Shared (210 NSF); Asst. Chaplain/Waiting Area (310 NSF); S-1 PAC (840 NSF)
Staff Duty	Provide a minimum 110 NSF Staff Duty in the building entrance/reception area.
Copy Room	Provide a minimum 110 NSF Copy Room located adjacent to the Staff Duty.
Message Center	Provide a minimum 140 NSF Message Center located adjacent to the S-1 Office, S-1 PAC, and the Lobby. Provide a lockable pass-through opening with a counter from the Message Center to the Lobby.
Classrooms	Provide two (2) classrooms, each a minimum of 3,600 NSF and capable of accommodating a minimum of 240 personnel.
Assembly Area	Provide two (2) Assembly Areas to allow soldiers to assemble and gather at the BNHQ. Locate on the exterior sides of the BNHQ, adjacent to each Classroom
Reception	Provide a minimum 500 NSF Reception area located within the Command Suite.
Hall	Provide a minimum 1,575 NSF Hall to provide access to the classrooms from the lobby and provide a minimum of five (5) drinking fountains.
Lobby	Provide a minimum 900 NSF Lobby, centrally located in the building to provide access to each section of the building.
Conference Room	Provide a minimum 750 NSF Conference Room capable of accommodating at least sixteen (16) chairs around a conference table and twelve (12) chairs along the Conference Room walls.
Storage	• S-4 Storage: Provide a minimum 800 NSF storage room located adjacent to the S-4 office area • S-2/S-3 Storage: Provide a minimum 80 NSF storage room located adjacent to the S-2/S-3 office area • Classroom Storage: Provide two (2) minimum 160 NSF storage rooms located adjacent to each classroom for a total of four (4) Classroom storage rooms. • Unit Ministry Storage: Provide a minimum 50 NSF storage room located adjacent to the Unit Ministry office area
Vending	Provide a minimum 130 NSF open space to accommodate three (3) vending machines that allows access from both the classroom area and reception area.

Restrooms	• Public Restrooms: Provide separate male and female restrooms with a minimum 210 NSF each. Restrooms shall be located on the first floor for visitors and building occupant use. Each restroom shall have a minimum of one (1) shower. Locate two (2) drinking fountains adjacent to the exterior of the Public Restrooms. • Classroom Restrooms: Provide separate male and female restrooms with a minimum 275 NSF each located adjacent to Classrooms. • Command Suite Restroom: Provide a minimum 55 NSF unisex restroom located within Command Suite for use of command staff.
Janitor Closet	Provide a minimum 40 NSF janitor closet with built-in sink.

DINING FACILITY (DFAC)

ITEM	MANDATORY CRITERIA
Population	DFAC capacity is based on a maximum 95% utilization factor • 1300 Soldier serving capacity within 90 minutes • 2600 Soldier serving capacity within 90 minutes Where requirements exist for the larger facility and the complex is provided in a consolidated area, it shall be constructed in lieu of constructing two 1300 Soldier DFACs.
Gross Area of Facility	Gross building area consists of exterior covered queuing, covered loading dock and all enclosed spaces. 1300PN / 2600PN DFAC: 27,240 GSF / 49,610 GSF Covered queuing: 6,520 GSF / 12,780 GSF 33,760 GSF / 62,390 GSF
Operation	• This facility must enable concurrent and segregated company operation. This includes separate queuing, entrances, hand wash, toilets, head-count stations, serving lines, self-service lines, dining rooms, beverage refill line and exits. • A consolidated soiled dish drop-off and dish wash area shall be located immediately adjacent to the exits. • Provide facilities and equipment for short order, hot food, and specialty service lines. Patron flow through serving lines shall minimize backtracking for desserts and beverages. • Provide beverage refill stations in each main dining area.

Seating Capacity and Arrangement	1300PN – Seating capacity is 544 seats. Provide two separate main dining areas with 256 seats each. Provide separate area adjacent to each main dining area, each with 16 seats for cadre/training staff. 2600PN – Seating capacity is 1088 seats. Provide four separate main dining areas with 256 seats each. Provide separate area adjacent to each main dining area, each with 16 seats for cadre/training staff.
Receiving Area	Provide a minimum of 2 truck dock spaces with one dock leveler at 48" above grade. A ramp and stair shall provide access from dock to dumpster/trash area. A can wash area shall be located adjacent to the loading dock.
Field Feeding Area	Provide an area adjacent to the dock for preparation and storage of field feeding items. This area shall include equipment for hot and cold beverage preparation, an icemaker, and space for handling and storage of insulated containers.
Other Support Areas	Provide handicapped accessible staff toilets with adjacent unisex locker and break area. Provide a manager's office and adjacent staff office with lockable administrative storage. Provide janitor closets accessible to both the kitchen and the dining area.

BACKGROUND

Basic Training/One-Station Unit Training Complex Composition: A BT/OSUT Complex consists of several facilities types with emphasis on the following facility categories:

Category Code	Description
14183	Battalion Headquarters Building
44220	Storage Building, General Purpose, Installation --- (used for LEB)
72181	Trainee Barracks
72210	Dining Facility

Facilities covered in this standard have functional elements included in category codes 14185 (Company Headquarters Building), 17119 (Organizational Classroom), 17139 (Covered Training Area) or related category codes.

General Design Philosophy: BT/OSUT Complex is programmed as a unit, rather than as individual facilities as a complete BT/OSUT battalion drives the overall functionality of the facility. The facilities, outdoor training areas, and any additional support facilities, are arranged on the site as a unit to allow the battalion to live, eat, train, and work together and ideally should be planned within a 1,680 foot maximum diameter circle.

Functional, operational, and spatial relationships critical to meeting battalion training requirements are embedded in the operational layout of facilities. By definition, use of the term complex in this standard refers to multiple facility types that are packaged to meet training mission objectives while minimizing (to extent feasible) the complex footprint. The facility planner contacts the COS to consider alternatives to minimize or preclude functional and

operational impacts on training requirements when there is a critical need for spatial or land use consideration for siting and implementing this Army Standard.

Planning and Land use: Site selection and real property master planning for all BT/OSUT complexes should to maximum extent possible, meet layout and configuration for spatial relationships between BNHQ, B/COF and DFAC per BT/OSUT Complex Standard Design.

Specific MILCON Transformation Design Considerations:

- Maximum use of natural light so facilities remain usable during periods of lost utility support.
- Economy of construction is a design prerequisite.
- Facilities must be durable to withstand the rigors of multiple users.
- Pre-fabricated construction components and/or modular construction are encouraged as long as facility durability standards are satisfied.

GUIDANCE

Operational Configuration: A typical BT/OSUT Complex includes five B/COF, one BNHQ, one DFAC, an outdoor training area with a quarter mile running track, parking and service access. BNHQ is located at entrance to BT/OSUT Complex where visitors can be received and entry into the complex controlled and has a clear and convenient pedestrian access to various B/COFs and DFAC. This Standard does not include a Central Cooling Plant.

Site Amenities: Includes running track, PT pits, sidewalks, access drives, controlled access, and exterior utilities.

"Typical" Battalion BT/OSUT complex has:	Total GSF
• Five Barracks/Company Operations Facility	323,500 GSF (w/ covered training/assembly)
• Battalion Headquarters	23,500 GSF
• 1300 Soldier Dining Facility	33,760 GSF (w/ covered queuing area)
• Lawn Equipment Storage Building	2,000 GSF

Arms Vault: Secure arms vault requires 240 PN arms storage for each B/COF. Weapons racks are typically Government furnished and contractor installed. Weapons racks are securely anchored to building structure.

Gross Area Calculation: Gross floor areas depicted in the "Mandatory Criteria" reflect a change towards counting all space at the actual floor area despite previous guidance in TI 800-01 for considering some space at one-half the actual floor area. This change reflects the goal to go to Industry Standards, which does not distinguish between half space and full space.

The Gross Area Calculation is not meant to change how the Army programs, tracks, or calculates gross area. Facility gross area conversions to account for half-space are available upon request.

Previous Gross Area Calculation Methodology (TI 800-01): Gross Floor Areas. Floor areas specified are gross floor areas measured from the exterior surface of the outside walls. These areas include the floor areas taken up by outside walls, interior partitions, stairs, toilets, halls and corridors, enclosed walks, mechanical, electrical and electronic equipment rooms (when incorporated within or attached to structures), and covered shipping and receiving platforms.

Also included in the gross floor area, but computed at one-half the actual floor area, are all covered open porches, covered but not enclosed passageways and walks, and uncovered shipping and receiving platforms. (Half-space is calculated as full space in the Army Standard).

Private Operated Vehicle (POV) Parking: The location of POV parking area(s) are designed based on each Installation's specific site constraints and can either be consolidated or spread out along the perimeter of the BT/OSUT Complex. Distance is measured based on a pedestrian's path of travel and should not exceed 1,680 feet. (For example, add distance of midpoint of car to end of parking stall, stall to sidewalk, and sidewalk to building entrance. Account for any obstacles into distance measurement.) POV parking areas meet standoff distance requirements dictated IAW UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings. The dining facility space requirement is based on 120% of maximum shift staffing. The B/COF is for able-bodied personnel.

Vehicle Parking Requirements:

B/COF: 18 per Company x 5 Companies= 90 vehicle spaces Total

BNHQ: 18 regular spaces, 3 visitor and 2 handicap spaces = 23 Total

DFAC: 120% (54 PN for a 801-1300 PN facility) = 65 Total
(3 handicap parking stalls included in 65 spaces requirement)

TOTAL: 90 + 23 + 65 = 178 Total Vehicle Parking Spaces

Sleeping Bays: Each sleeping bay has a minimum population of sixty and may be increased to a maximum population of seventy-two to accommodate population surges. Mechanical, electrical, plumbing and sewer systems are designed to meet maximum population requirement.

Classrooms and Battalion Headquarters Conference Rooms: Provide video teleconferencing capability. Classrooms are multi-functional spaces divisible by partitions and with full automation connectivity for up to three multi-functional configurations of each large space.

Telecommunications: Telecommunications infrastructure meets I3A and ANSI/TIA/EIA requirements. Outlet density is provided per the I3A technical guide based on functional purpose of the various spaces within the facility as modified by user special operational requirements.

Army Technology Standards: Approved Army Technology Standards are implemented in accordance with the applicability and implementation guidance of that standard.

Physical Security Levels: The following are the levels of security access:

Zone 1 – Activities in these zones involve day-to-day operational needs with soldiers assigned to the BNHQ. Operations within this zone may be conducted up to 24 hours per day / 7 days per week. Typically, entrance doors to these functional areas are in an unlocked state with a staff person located at entrance to control access. Functional areas within this zone have lockable door entrances to secure during non-working periods and separation walls are continuous to the building structure in order to prevent unauthorized entries.

Zone 1 security levels: Command Group; S1; S4; Unit Ministry

Zone 2 – Activities in these zones involve much less day-to-day operational needs with soldiers assigned to the BNHQ. Operations within this zone may be conducted up to 24 hours per day / 7 days per week. Typically, entrance doors to these functional areas are in a locked state with a

staff person located at entrance to control access. Separation of activities is provided between zone 1 and zone 2 to ensure privacy and prevent unauthorized entries. Functional areas within this zone have lockable entrances to secure during non-working periods and separation walls are continuous to the building structure in order to prevent unauthorized entries.

Zone 2 security levels: S-2 & S-3

Mission Separation:

The Running Track is separated from all vehicular traffic.
Command Group is separated from: Chaplain's Office; Classrooms
Unit Ministry has a separate exterior entrance located away from main building entrance.

Separation – Defined as separate in space or position from designated mission group(s) or functions, with intervening space. Typically intervening boundaries are those such as different floors, permanently constructed walls, halls or where moveable partitions can be used.
Office Adjacencies:

Barracks/Company Operations Facility adjacencies:
- Drill Instructors offices are adjacent to Platoon Sleeping Bay
- Platoon Classrooms are adjacent to the Platoon Sleeping Bays

Battalion Headquarters adjacencies:
- S-4 has a desired proximity to: S-3

Adjacencies – Considered nearest in space or position; immediately adjoining without intervening space. Typically there is a common boundary or edge, however there may be space between when several services have competing requirement to be adjacent. Typical boundaries used are permanently constructed walls, halls, and moveable metal partitions.

Laundries: Provide large capacity washers and dryers at a ratio of 8:1 (washers) and 6:1 (stackable dryers) based upon surge capacity. Laundry facilities are adjacent to sleeping area.

- Calculations: Provide a minimum total of 36 washers (288 PN / 8 washers) and 48 stackable dryers (288 PN / 6 dryers) per B/COF building.
- Washers and dryers are evenly distributed on each barracks floor. Provide 18 washers and 24 stackable dryers on each floor.
- Provide a total of 180 washers (36 x 5 bldgs) and 240 stackable dryers (48 x 5 bldgs) per a typical B/COF complex.

Accessibility: The Barracks/Company Operations Facilities are for able-bodied personnel and are not required to meet ADAAG requirements. The mission is for transient training and there is no visitor requirement.

Sustainability: Facility is designed to meet current sustainable development and design policy requirements as established by the Department of the Army. The Army has transitioned to Leadership in Energy and Environmental Design for New Construction (LEED-NC) and the SILVER rating level is the designated new sustainable performance criteria for MILCON projects starting in FY08 and beyond. Sustainable design techniques should be considered as they relate to site design, site engineering, unit design, and unit engineering. See Army's latest guidance for sustainability requirements.

- Exterior Construction: Use sustainable, low maintenance finish materials.
- Landscaping: Provide materials natural to the area to limit irrigation and maintenance.
- Utilities: Use underground utility distribution lines, where feasible.

Waivers: The Army Facilities Standardization Program Charter is subject to change. The approved charter at the time this standard was approved was dated 24 May 06. Waiver approval has changed since 24 May 06 charter and will be corrected in next revision. Waiver approval will be changed from the Army Facilities Standardization Committee to state only the Assistant Chief of Staff for Installation Management has authority to approve waivers.

Compliance Threshold: The Army Standard may identify an Army regulation, technical guide or other written guidance as mandatory criteria. The Corps of Engineers Center of Standardization (COS) provides the first line technical compliance review. The Facilities Design Team in conjunction with the COS will resolve any issues where there may be conflicting, unclear or no compliance measurement threshold. Resolution may require senior leadership guidance or amendment of the Army Standard. The Army Standard is not intended to provide compliance criteria detailed in references, regulations, industry standards, or the standard design.

BT COMPLEX ROOM FINISH SCHEDULE REQUIREMENTS

SPACE	FLOOR	WALL	BASE *	CEILING **
ADMINISTRATION				
VESTIBULE	PT OR QT	EPGB		ACT, PTD
RECEPTION / LOBBY / HALL	PT OR QT	EPGB		ACT, PTD
COMMAND PRIVATE OFFICES***	CRPT	PTD		ACT
PRIVATE / SEMI-PRIVATE OFFICES	VCT	PTD		ACT
OPEN OFFICES	VCT	PTD		ACT
STAFF SUPPORT				
CONFERENCE ROOM	CRPT	PTD		ACT
MESSAGE CENTER	VCT	PTD		ACT
STAFF DUTY	VCT	PTD		ACT
COPY ROOM	VCT	PTD		ACT
VENDING	VCT	EPGB		ACT, PTD
RESTROOMS	CT	CT		PTD
SUPPORT AREAS				
CORRIDORS	PT OR QT	EPGB		ACT
JANITOR CLOSET	QT	CT		VACT
MECHANICAL	SC	PTD		PTD
COMMUNICATIONS	SC	PTD		PTD
ELECTRICAL	SC	PTD		PTD
STORAGE (applies to all storage areas)	VCT	EPGB		PTD
COVERED TRAINING	SC	-		EXPOSED
ROOMS				
CLASSROOMS	VCT	EPGB		ACT
SLEEPING AREA	VCT	EPGB		PTD
ARMS VAULT	SC	SC		SC
LAUNDRY ROOM	QT	PTD		EPGB

LEGEND:

SV – SEAMLESS VINYL FLOORING
CT – CERAMIC TILE
PT – PORCELAIN TILE
QT – QUARRY TILE
VCT – VINYL COMPOSITION TILE
SC – SEALED CONCRETE
PTD – PAINTED GYPSUM WALLBOARD
EPGB – EPOXY PAINTED GYPSUM BOARD
VACT – VINYL FACED ACOUSTICAL CEILING TILE (MOISTURE RESISTANT)
ACT – ACOUSTICAL CEILING TILE
CRPT – CARPET

* **Base**: Will be appropriate to the flooring. Base to be sealed with USDA approved caulk (Edible)

** **Ceiling**: 2 ft X 2 ft size with concealed tile joints

*** **Command Private Offices:** Company/Battalion Commanders; Executive Officers; Command Sergeant Major; and Chaplain

Reference Criteria: Designs shall use latest editions of the following design criteria:

- American with Disabilities Act Accessibility Guidelines (ADAAG)
- Uniform Federal Accessibility Standards (UFAS) Federal Standard 795
- IBC – International Building Code
- AR 405-70, Utilization of Real Property
- AR 420-01, Army Facilities Management
- AR 380-05, Department of the Army Information Security Program
- AR 190-11, Physical Security of Arms, Ammunition, and Explosives
- DoD Regulation 5200.1-R, Information Security Program, – Appendix 7 Physical Security Standards, AP7.1, Vault and Secure Room Construction Standards
- DA PAM 415-28, Construction Real Property Category Codes
- TB MED 530, Occupational and Environmental Health Food Sanitation
- ETL 1110-3-491, Sustainable Design for Military Facilities
- Executive Order 13423 (E.O. 13423), "Strengthening Federal Environmental, Energy and Transportation Management"
- Energy Policy Act 2005 (EPACT 05)
- U.S. Army Information Systems Engineering Command (USAISEC) Technical Guide (TG) for Installation Information Infrastructure Architecture (I3A)
- USAISEC Technical Guide for the Integration of SECRET Internet Protocol (IP) Router Network (SIPRNET)
- ANSI/TIA/EIA-568-B Commercial Building Telecommunications Cabling Standard
- ANSI/TIA/EIA-569-B Commercial Building Standard for Telecommunications Pathways and Spaces
- UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design
- UFC 3-600-01, Fire Protection Engineering for Facilities
- UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings
- UFC 4-023-03, Design of Buildings to Resist Progressive Collapse
- UFC 4-722-01, Dining Facilities