



Headquarters, Department of the Army, Office of the Assistant Chief of Staff for Installation Management

May 7, 2014



Administrative Office of the U.S. Courts





Headquarters, Department of the Army, Office of the Assistant Chief of Staff for Installation Management

**Philip R. Columbus,
General Engineer,
Facilities Policy Division
Operations Directorate
Office of the Assistant Chief of Staff for Installation Management**



Order of Presentation

Strategic Context

Army Facilities Standardization Committee

Facility Standards Group

Technology Standards Group

Army Standards, Army Standard Designs

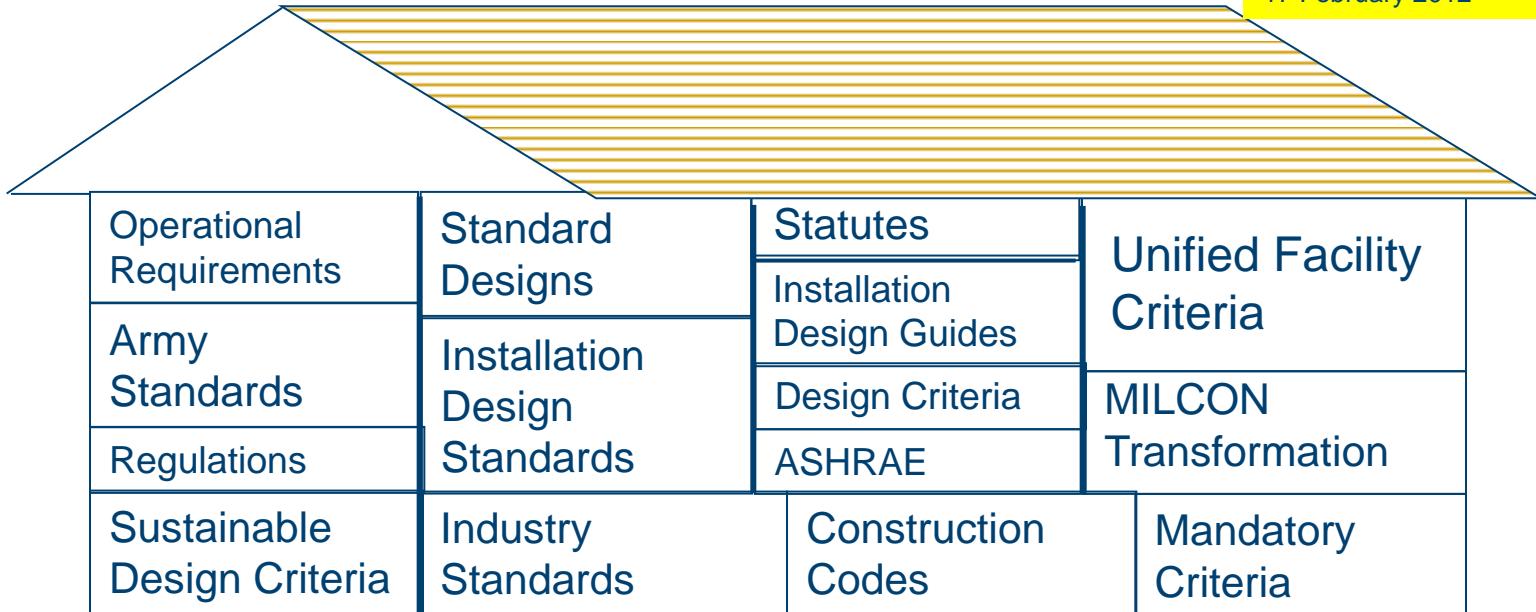




Strategic Context

“As we look to the future, the uncertainty and complexity of the global security environment demands vigilance. In these challenging economic times, America’s Army will join Department of Defense efforts to maximize efficiency by identifying and eliminating redundant, obsolete or unnecessary programs, responsibly reducing end-strength and by evolving our global posture to meet future security challenges..”

General Raymond T. Odierno
Chief of Staff of the Army
17 February 2012





Strategic Context



UFC 1-200-02 HIGH PERFORMANCE AND SUSTAINABLE BUILDING REQUIREMENTS

- ❖ Effective Date: 1 March 2013
Note: Supersedes ECB 2011-1 (Retracted) and UFC 4-030-01, Energy Conservation
- ❖ Adoption of ASHRAE 189.1
- ❖ LEED v3 (Potentially LEED v4)
- ❖ Increased 'day-lighting' (75% of critical spaces)
- ❖ Increased Insulation Thickness
- ❖ Eliminate Thermal Bridges
- ❖ Demand Control High Efficiency HVAC
- ❖ Energy Recovery Ventilation
- ❖ Dedicated Outside Air System
- ❖ Renewable Energy
 - ✓ Hot Water
 - ✓ Electrical Power
- ❖ Metering and Reporting Systems





Army Facilities Standardization Committee

To define “Standards” for our facilities:

- Charter signed May 2006
- Co-chair members
 - OACSIM Director, Operations
 - IMCOM G4
 - USACE Chief, Engineering and Construction
- Committee formed to:
 - Review and approve Army Standards
 - Direct standardization efforts
 - Adjudicate waivers to the Army Standards
 - Set priorities of support for new Army Standards
- Incorporated into AR 420-1, Army Facilities Management, Feb 2008

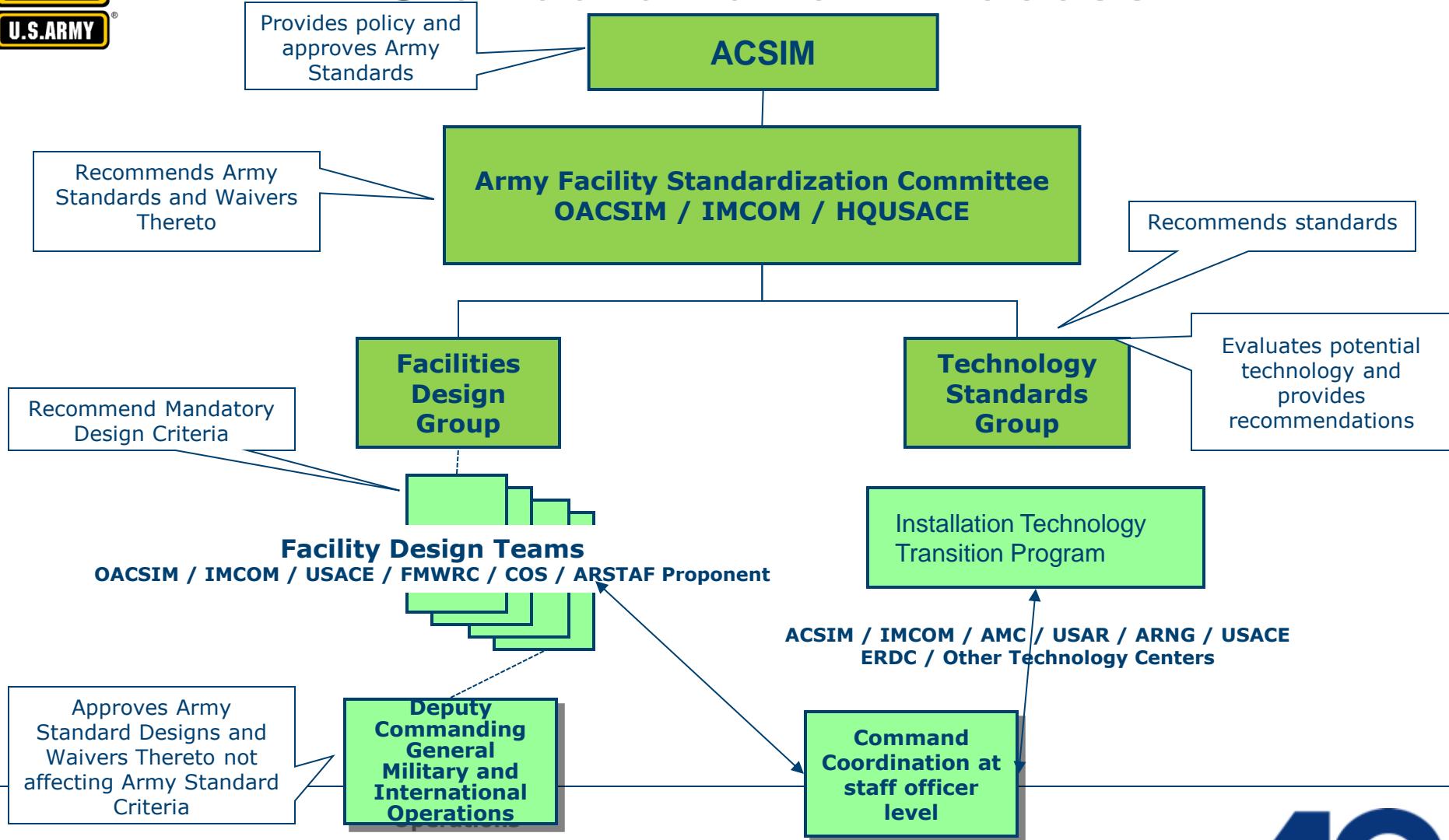


Why Army Facilities Standards

- Support the Army with an adaptable product line of facilities
- Minimize facility changes driven by adjustments in Army force structure, modernization, and training support
- Increase agility to reuse facilities with minimum lead-time using multi-purpose product lines
- Improve Soldiers and Families Quality of Life with enabling technologies and performance improvements
- Improve SRM forecast change impacts with predictable facilities in performance, cost, and efficiencies
- Reduce acquisition/lifecycle costs
- Inculcate cost culture with informed requirement validation versus unconstrained desires
- Consistently apply lessons learned for improved facilities



Facilities & Technology Standardization Process





Army Standards and Army Standard Designs

- **Army Standard:** Sets the functional and operational requirements which support doctrinal needs for every facility type
 - ARSTAF proponents sets the mission requirements
 - Developed by a Facility Design Team (FDT)
 - Approved by the ACSIM
- **Army Standard Design:** Applies the technical engineering requirements (material and methods for delivery) that can be consistently replicated in construction
 - Developed by USACE Centers of Standardization and reviewed by the Facility Design Team
 - Approved and published by HQ USACE in coordination with the AFSC
 - Promulgates required Engineering Construction Bulletins (ECB) and updates technical standards



Facility Design Team Structure and Function

- Composition

- Department of the Army proponent (typically from ARSTAF)
- OACSIM co-chair
- USACE Center of Standardization
- Facility manager (IMCOM, FMWRC)
- Other stakeholders (using organizations)

- Function

- Develop mandatory requirements
- Review Standard Design and criteria for completeness and Army required capabilities
- Develop and gain consensus on Army Standards
- Review and recommend disposition of waivers



Army Standard Designs

- Initial Standardization Strategy
 - Compliance with 30% energy savings per EPACT '05
 - Design to reflect operations requirements
 - Achieve all criteria with PA with Best Quality
 - Achieve LEED Silver
- Successes
 - 44 Approved Army Standard Designs in-place
 - 21 DD1391 templates completed (including 3 complexes and 68 sizes)
 - Establishment of public Centers of Standardization website



Army Standards

• Approved 32 Army Standards

- Unaccompanied Enlisted Personnel Housing (G-1)
- Company Operations Facilities (G-3/5/7)
- Child Development Centers , 6 to 10 yr- olds(ACSIM)
- Access Control Point (OPMG)
- Army Lodging (ACSIM)
- General Instruction Buildings (G-3/5/7)
- Operational Readiness Training Complex (G-3/5/7)
- Army Family Housing (ACSIM)
- Army Community Service Centers (ACSIM)
- AIT Barracks Complex (G-1)
- BT/OSUT Barracks Complex (G-1)
- Soldier and Family Assistance Centers (OTSG)
- Warriors-in-Transition Unit Headquarters (OTSG)
- Aircraft Maint Hangar Complex (G-4)
- Central Issue Facility (G-4)
- Command and Control Facilities (EAB) (G-3/5/7)
- Child Development Center (6 Wks to 5 Year-olds) (ACSIM)
- Youth Centers (ACSIM)
- Warriors-in-Transition Barracks (OTSG)
- Tactical Equipment Maintenance Facilities (G-4)
- Initial Entry Training Chapel (Chaplain)
- Supply Support Activity (G-4)
- Aircraft Rinse Facility (G-4)
- Brigade and Battalion Headquarters (G-3/5/7)
- Enlisted Personnel Dining Facility (G-4)
- Judicial Center (OTSJAG)
- Fire Stations (ACSIM)
- Family Life Center (Chaplain)
- General Congregation Chapels (Chaplain)
- Religious Education Center (Chaplain)
- Physical Fitness Facility (ACSIM)
- Battlefield Weather Sqdn Facility (G-2 & G-3/5/7)

Commissioned 32 Active Facility Design Teams

3 Technology Standards

- Keyless Entry Systems
- Non-water Urinals – rescinded 2011 to comply with ASARAE 189.1
- LED Traffic Signals

Chapels
Barracks
Trainee Barracks
Bde/Bn HQ
Company Operations Facility
Tactical Equipment Maintenance
Dining Facility
Brigade Combat Team Complex
Command and Control Facilities
Physical Fitness Center
Military Entrance Processing
Training Ranges
General Instruction Building
Reserve Center
Child Development Center
Youth Centers
Family Housing
Fire Station
Warehouse Facilities
Access Control Points
Army Community Service
Army Lodging
Consolidated Fire/Police/Safety
ORTC
Judicial Centers / court houses
Warrior-in-Transition Facilities
Aircraft Maint Facilities
Soldier and Family Support Ctrs
Supply Support Activities
Museum Artifact Storage
Central Issue Facility
Battlefield Weather Sqdn Facility



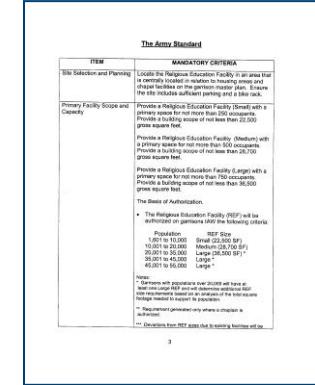
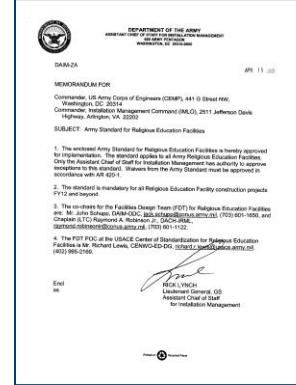


Example: Company Operations Facility

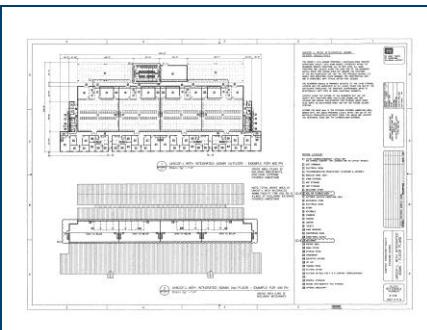
FDT developed Proponent Requirements

- Battalion centric
- Open, flexible design
- Enlarged TA-50 lockers
- Increased interior space
- Covered exterior area
- Enlarged arms vaults
- Non-sensitive items storage
- Consolidated showers
- Economy of construction
- Located near motor pool

ACSIM publish the Army Standard



Center of Standardization (Savannah District) manages the Standard Design



13

Standard designs are applied to the acquisition project





Let's Connect!

[philip.r.columbus.civ@mail.mil]

Send Me Your Questions



Administrative Office of the U.S. Courts

