(PRE-FINAL)
LITTLE ROCK AIR FORCE BASE
INSTALLATION FACILITIES STANDARDS (IFS)
Little Rock Air Force Base IFS

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A. OVERVIEW

Comply with Air Force Corporate Standards for Overview:
http://afcfs.wbdg.org/index.html

This Installation Facilities Standards (IFS) document is part of the Air Force Corporate Facilities Standards (AFCFS) program to assist bases in implementing and maintaining facilities standards as appropriate for efficient operations within the respective climate region. IFS fully replaces, consolidates and simplifies existing facilities standards documents, such as the Architectural Compatibility Plan (ACP) or ACGs, FEPs, etc., and organizes information using the same structure, or Table of Contents, as the AFCFS website.

IFS reflects the AFCFS' concepts of "Facility Hierarchy" (categorizing facilities into group numbers) and "Facility Quality" (assigning an appropriate level of quality to each group number) and applies these principles at the base level. Applicable DoD and Air Force criteria such as UFCs, AFIs, Memoranda, and UFGSs (Guide Specs) are referenced and linked within IFS to ensure the document is always current.

Navigating within this IFS is efficient and straightforward. Please use the interactive Table of Contents to locate subject matter, and click on the title of a section to access it. From any page, click on the "Back to Table of Contents" footer to return. Content is organized into 4 major sections: Installation Elements, Site Development, Facilities Exteriors and Facilities Interiors.

This IFS document begins as a fill-in PDF form, which is fully editable, and becomes a "living document" that can be regularly updated by base-level personnel following a format that is consistent across the Air Force. While the format is standardized, IFS content is customized for base operations and the local climate to ensure mission success while emphasizing reduced maintenance and reduced initial costs, life-cycle costs, energy use, and water use.

1. Conformance to Air Force Corporate Facilities Standards (AFCFS) and Installation Facilities Standards (IFS) are required by Air Force Instruction (AFI) 32-1023 and Air Force Memorandum. Please refer to the AFCFS website for links to documentation on current policy.

2. Requests to deviate from any installation facilities standards, that are Unified Facilities Criteria (UFC) requirements, will follow the process outlined in the AFCFS for UFC waivers and exemptions.

3. The IFS is a component plan of the Installation Development Plan (IDP) per Air Force Instruction (AFI) 32-7062 (replacing the Architectural Compatibility Plan). All military construction projects and Non-Appropriated Funds (NAF) facilities are required to comply with the IDP and its IFS component plan by AFI 32-1023. The Base Civil Engineer (BCE) maintains and implements the IDP and its component plans, to include the IFS.

4. Please refer to the AFCFS website as a portal to reference materials and requirements documents for design and construction projects (via links). Specific references to current DoD memoranda and Air Force criteria are updated periodically to provide the most current guidance and requirements. Programming, design and contract documents should list "current edition" for all reference and requirements documents. The documents in force at the date of execution of the design and/or construction contract shall be the governing version.

5. Advanced Modeling Requirements:
For all Air Force projects requiring advanced modeling, to include 3D visualization, Building Information Modeling (BIM), facility data, quantity take-off, geospatial, etc., follow the Army standards. Refer to USACE Minimum Model Matrix (M3) and Project Execution Plan (PxP) which outline required model uses. Refer to CAD BIM Technology Center (Contract Requirements) for more information on M3 andPxP.

6. Joint Bases shall implement IFS under their Joint-Base designation with volume numbers for individual installations following the IFS Development Tool template. For example, for Joint Base Langley-Eustis, provide: Vol. 1 Langley AFB and Vol. 2 Fort Eustis.

7. References and Supplementary Documents listed in Appendix G are included in these Installation Facilities Standards by reference and are fully part of this document. Please refer to Appendix G for a listing of documents, which are available via hyperlink for viewing and downloading.
A01. FACILITY HIERARCHY
Comply with AF Corporate Standards for Facility Hierarchy (and subsections):
http://afcfs.wbdg.org/facility-hierarchy/index.html

A02. FACILITY QUALITY
Comply with AF Corporate Standards for Facility Quality (and subsections):
http://afcfs.wbdg.org/facility-quality/index.html

A03. FACILITY DISTRICTS
Comply with AF Corporate Standards for Facility Districts (and subsections):
http://afcfs.wbdg.org/facility-districts/index.html
Note: Apply the base-wide standards in this IFS for Installation Elements, Site Development, Facilities Exteriors and Facilities Interiors (products, materials, color, etc.). Following application of the base-wide standards, refer to the Appendix and apply any additional requirements specifically related to the Facility District.
B. INSTALLATION ELEMENTS
Comply with Air Force Corporate Standards for Installation Elements:
http://afcfs.wbdg.org/installation-elements/index.html

B01. COMPREHENSIVE PLANNING
Comply with Air Force Corporate Standards for Comprehensive Planning:
http://afcfs.wbdg.org/installation-elements/comprehensive-planning/index.html

B01.1. Installation Development Plan (IDP)
- Applicable  N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1

Application of DoD and Air Force Facilities Criteria

Department of Defense, Department of the Air Force and Air Force Base Criteria

1. The Base Civil Engineer is responsible for developing, maintaining and implementing the installation’s Comprehensive Planning documents and to ensure that the Installation Development Plan (IDP) is prepared, maintained, and implemented following AFI 32-7062.
1. The Base Civil Engineer is responsible for maintaining Installation Facilities Standards (IFS) as a Component Plan of the Base's Installation Development Plan (IDP).
B01.1.2. Brief History of Base

In late 1951, after learning of the Air Force's desire for a new base in the central United States, local leaders sent a letter to the Secretary of the Air Force urging serious consideration of the Little Rock area. In an ambitious move, the local leaders convinced Pentagon officials that funds would be raised locally, and the land would be purchased and donated to the Air Force. In January 1952, the Air Force agreed to the proposal, and local citizens went to work.

In September 1955, the base was opened to air traffic. In a special ceremony, local leaders and assigned personnel welcomed the arrival of the RB-47 aircraft. The initial reconnaissance mission eventually switched to a purely training mission.
While Little Rock AFB was still home to two Stratojet wings, the Air Force decided to base 18 Titan II Intercontinental Ballistic Missiles in underground silos around the base. Work began on the silos in January 1961. Once construction was completed, crews supported the ICBM mission for over 23 years.

In 1962, the Arkansas Air National Guard became a presence at Little Rock AFB. The Air Force moved the Lockheed C-130 Hercules aircraft to Little Rock AFB in 1970.

In April 1997, the 314th Airlift Wing transferred to Air Education and Training Command. The 463d Airlift Group was activated at the base as a tenant under AMC, and the 50th and 61st Airlift Squadrons were reassigned from the 314 AW to the 463 AG. Finally, CADS was realigned under AMC’s Air Mobility Warfare Center. The purpose of these changes was to move the C-130 schoolhouse under AETC while retaining AMC’s control over operational aspects of C-130 operations.

In October 2008, the host Command changed again when the 19 AW became the Host Wing under AMC and the 314 AW became an associate tenant unit.

Since its official opening in October 1955, Little Rock AFB has been a valuable component of US air power. From the first day a B-47 went on alert in 1956 until the final Titan II went off alert in 1987, the men and women of The Rock were on the front lines of the Cold War and played a vital role in winning it. Peace is protected through readiness, and Little Rock AFB has always been ready.

B01.1.3. Future Development

Select number of graphics / images (large: 800 px x 440 px) to insert: 2

Small graphics do not apply

Developable and Redevelopment Areas at LRAFB

2. Address all furniture development under the Installation Development Plan (IDP).

**B02. STREET ENVELOPE STANDARDS**

Comply with Air Force Corporate Standards for Installation Elements:

Comply with AF Corporate Standards for Street Envelope Standards:
B02.1. Hierarchy of Streets

☐ Applicable  ☐ N/A  Large graphics do not apply

☐ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  2

Insert Hierarchy of Streets graphic

Size image to:
250 pixels width x 188 pixels height

Click here to insert image

Hierarchy of Streets

1. Develop and evolve a hierarchical transportation network of arterial, collector and local streets following UFC 3-201-01 and its industry references.

2. Provide consistent functionality throughout the installation and a level of visual quality relating to the adjacent Facility Group number.

3. Routes along facilities in Group 1 may have materials, finishes and features with a higher visual quality than Groups 2, 3 and 4. Reduce maintenance requirements by installing highly durable materials and finishes in routes along Group 3 industrial facilities.

4. Special routes may have a visual quality comparable to those along facilities in Group 1.

5. Create and maintain arterials with two lanes of traffic in each direction with landscaped or paved medians as applicable to the local climate and adjacent facility group designation / land use.

6. Minimize stops and turns along arterials. Eliminate on-street parking along arterials and minimize it along collector streets.

7. Connect arterials to local streets with appropriately scaled collector streets.

8. Provide appropriate landscape setbacks and pedestrian buffers along all streets.

9. Minimize and consolidate curb cuts along streets.

10. Ensure access for emergency and service vehicles.

11. Define bicycle traffic routes in the Installation Development Plan or its applicable component plans.

12. Define appropriate force protection features, site furnishings, signs, lighting, utilities, and paving in the IFS.
1. Stops and turns should be minimized and on-street parking shall not be allowed at any point along arterial streets.

2. Provide sidewalks on at least one side of arterial streets and both sides of arterial streets in developed areas. Provide a 6’ buffer between the road and sidewalk where space allows.

3. Limit curb cuts on arterial streets to entries into major facilities, building groups and major parking areas.

4. Reinforce the importance of arterial streets with appropriate signs, plantings and street lighting.
B02.1.2. Collector Streets

- Applicable
- Select number of graphics / images (large: 800 px x 440 px) to insert
- Image Tool 800 x 440
- Applicable
- Select number of graphics / images (small: 250 px x 188 px) to insert
- Image Tool 250 x 188

Travel Lane (a): 12’  Median (b): N/A  Curb and Gutter (c): 2’  Landscape (d): 10’  Sidewalk (e): 6’  Setback (f): Min. 35’ or per ATFP

1. Frequent traffic stops and low speeds are permitted on collector streets.

2. Provide sidewalks on at least one side of collector streets and both sides of collector streets where functionally required. Buffers are preferred but not required on collector streets.

3. On-street parking may be allowed on one side where collector streets are over 34 feet wide. Parking shall not interfere with intersections or traffic flow.
4. Signs, plantings and street lighting should reinforce the designation of “collector” street.

**B02.1.3. Local Streets**

- **Applicable**  ☑  **N/A**  Select number of graphics / images (large: 800 px x 440 px) to insert  1
- **Applicable**  ☑  **N/A**  Select number of graphics / images (small: 250 px x 188 px) to insert  2

![Local Streets graphic](image1.png)

<table>
<thead>
<tr>
<th>Description</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel Lane (a): 11’</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median (b): N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curb and Gutter (c): 1.5’</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscape (d): 15’</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sidewalk (e): 6’</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Frequent traffic stops and low speeds are permitted on local streets.

2. Provide sidewalks on at least one side of collector streets and both sides of local streets where functionally required. Buffers are preferred but not required on collector streets.

![Local Streetscape](image2.png)

![Group 4 Streetscape](image3.png)
3. On-street parking may be allowed following UFC industry references.

4. Signs, plantings and street lighting should reinforce the designation of "local" street.

5. Cul-de-sacs are only permitted in family housing areas.

B02.1.4. Special Routes

☐ Applicable  ☐ N/A  Large graphics do not apply

☐ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

Open Space along Route  Headquarters on Axis  Approach to Base

1. Develop all special routes consistently with those adjacent to Group 1 facilities.

B02.2. Hierarchy of Intersections

☐ Applicable  ☐ N/A  Large graphics do not apply

☐ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

Arterial Intersection  Arterial-Collector Intersection  Local Street Intersection

1. Provide a hierarchy of intersections to include arterial, arterial-collector, collector, collector-local and local following UFC 3-201-01 and its industry references.

2. Passive systems such as traffic circles are preferred to active systems such as signalized intersections. Aggressively pursue passive systems to lower maintenance requirements and reduce energy use.
3. Use a level of visual quality for an intersection equal to the quality found in the related streetscape, which corresponds to the adjacent Facility Group number.

**B02.2.1. Arterials**

☐ Applicable ☐ N/A Large graphics do not apply

☐ Applicable ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 3

![Images](Signalized Intersection, Integrated Displays, Native Landscaping)

1. At arterial intersections adjacent to Group 1, landscaping of native grasses and shrubs may be provided; trees may be included when maintenance and non-potable irrigation is available. Monuments and static displays may be integrated into arterial intersection designs.

**B02.2.2. Arterial/Collector**

☐ Applicable ☐ N/A Large graphics do not apply

☐ Applicable ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 2

![Images](Coordinated Street Elements, Accent Landscaping)

1. At arterial/collector intersections adjacent to Group 1, landscaping of native grasses and shrubs may be provided; trees may be included when maintenance and non-potable irrigation is available.
B02.2.3. Collectors

- Applicable  N/A  Large graphics do not apply

- Applicable  N/A  Small graphics do not apply

1. At collector intersections adjacent to Group 1, landscaping of native grasses and shrubs may be provided; trees may be included when maintenance and non-potable irrigation is available. Intersections adjacent to Group 2 may be developed similarly, but with less detailing.

B02.2.4. Special Intersections

- Applicable  N/A  Large graphics do not apply

- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert

1. Develop all special intersections consistently with those adjacent to Group 1 facilities.

B02.2.5. Street Frontage Requirements

- Applicable  N/A  Large graphics do not apply

- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert

1. Open Space Buffers at Active Barriers

2. Sidewalk between park and street

3. Group 4 Street Elements
1. Consistently maintain open space buffers following B03.2.3. Preserves.

2. Refer to C06.1.7. Streetscape Landscaping for planting and screen wall requirements along street frontage.

**B02.2.6. Sight Lines**

- [ ] Applicable  [ ] N/A  Large graphics do not apply

- [ ] Applicable  [ ] N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 3

![Preserved Site Lines](Image Tool 250 x 188)

![Signalized Intersection](Image Tool 250 x 188)

![Coordinated Intersection Elements](Image Tool 250 x 188)

1. Provide adequate sight lines for an effective and safe traffic operation per American Association of State Highway and Transportation Officials (AASHTO) standards and local municipality guidelines.

**B02.3. Street Elements**

- [ ] Applicable  [ ] N/A  Large graphics do not apply

- [ ] Applicable  [ ] N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 6

![Integrate ATFP Systems](Image Tool 250 x 188)

![Organized Appearance](Image Tool 250 x 188)

![Cohesive Storm Drainage Elements](Image Tool 250 x 188)
1. Emulate the streetscape area's pre-development hydrology using passive and active design features to help sustain the adjacent regionally appropriate landscape. Coordinate with the base Stormwater Management Plan.

2. Employ systems, materials and techniques to maximize streetscape sustainability. Consider pervious paving and high reflectivity of surfaces, which are appropriate for the local climate.

3. Install at-grade curbing and/or raised-profile curb and gutter as applicable to direct stormwater to bioswales and rain gardens as source water for vegetation. Do not paint concrete curbing.

4. Provide all on-site utility service lines and equipment below grade when adjacent to Facility Group 1. In routes along Group 2, 3 and 4, when mounting elements such as utility cabinets, communications equipment and water valves above grade is unavoidable, paint these consistently and provide visual screening following Installation Facilities Standards (IFS).

5. Provide traffic control devices including access control point/entry control facility signs, speed limit signs and street name signs following the current edition of the Manual on Uniform Traffic Control Devices (MUTCD) per UFC 3-120-01.

6. Crosswalk markings shall follow the MUTCD for Streets and Highways, current edition. Provide white markings that define the edges of the crosswalk or a tone of lines defining the area of the crosswalk consistent with common practices found in the adjacent municipality.

7. Follow UFC 3-120-01 for directional and wayfinding signs and address both vehicular and pedestrian traffic.

8. Reduce energy consumption and reduce maintenance requirements by providing street lighting only when functionally required to ensure safety and to address antiterrorism following UFC 4-010-01. Ensure the quality and quantities of lighting and fixtures are appropriate for the adjacent Facility Group number.
B02.3.1. Paving

- Applicable  N/A  Large graphics do not apply

- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

1. Pavement design shall comply with UFC 3-250-01. Ensure appropriate analysis and design of subgrade conditions to promote low maintenance, high performance pavements. Apply all applicable best practices from Appendix B of the UFC.

2. Materials shall be specified in accordance with UFC 3-250-01 and must conform to requirements set forth in the Unified Facility Guide Specifications (UFGS) for concrete and bituminous pavement.

B02.3.2. Curb and Gutter

- Applicable  N/A  Large graphics do not apply

- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  2

1. Curb all streets except remote/isolated roads and rock-paved service roads.

2. All streets should have integral concrete curbs and gutters. Painted curbs are prohibited because they are very difficult to maintain.

3. Use concrete for sidewalks and curbs. Do not use asphalt curbs.
**B02.3.3. Utility Service Elements**

- **Applicable**  
  - **N/A**  
  - Large graphics do not apply

- **Applicable**  
  - **N/A**  
  - Select number of graphics / images (small: 250 px x 188 px) to insert  3

1. Provide all utility service lines below grade when streets are adjacent to Facility Group 1; when mounting elements (such as utility cabinets, communications equipment and water valves) above grade is unavoidable, paint these consistently and provide visual screening following Site Development, Landscaping.

2. Overhead service lines along streets adjacent to Facility Groups 2, 3 and 4 are discouraged.

**B02.3.4. Traffic Signs**

- **Applicable**  
  - **N/A**  
  - Large graphics do not apply

- **Applicable**  
  - **N/A**  
  - Small graphics do not apply

1. Refer to Exterior Signs, Colors and Types for Traffic Control Devices, which includes signs.

**B02.3.5. Street Lighting**

- **Applicable**  
  - **N/A**  
  - Large graphics do not apply

- **Applicable**  
  - **N/A**  
  - Small graphics do not apply

1. Refer to the Lighting section for appropriate applications along streets.

**B02.3.6. Other**

- **Applicable**  
  - **N/A**  
  - Large graphics do not apply

- **Applicable**  
  - **N/A**  
  - Small graphics do not apply
B03. OPEN SPACE / PUBLIC SPACE

Comply with Air Force Corporate Standards for Installation Elements:
http://afcfs.wbdg.org/installation-elements/index.html

Comply with AF Corporate Standards for Open Space / Public Space:

B03.1. Plazas, Monuments and Static Displays

- Applicable  ○ N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1  
  - Gate Guard

- Applicable  ○ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3  
  - Monument
  - Durable Plazas
  - Static Display of Aircraft
1. Natural features and culturally or historically significant features or events may be recognized and acknowledged with physical elements such as plazas, monuments and static displays. However, limit these elements on the base to ensure judicious use of resources and to reduce ongoing maintenance requirements.

2. Design highly durable plazas, monuments and static displays with a level of quality comparable to Facility Group 1.

3. Link plazas, monuments and static displays to the pedestrian circulation system. Install landscaping, site furnishings and lighting appropriate for the application and local climate following Installation Facilities Standards (IFS).

4. Select systems, products and materials for paving, walls, and structures following IFS.

**B03.1.1. Paved Plazas**

- **Heritage Park**
- **Integrated Drainage**
- **Concrete Paving with Masonry Accents**

1. Mitigate heat island effect by providing high-albedo, shaded plazas. Pervious pavers shall be used on all plazas and courtyards in Facility Groups 1 and 2; use pervious concrete in Groups 3 and 4. The designer shall incorporate appropriate expansion and construction joints.

2. Pavers shall match the color of pavers used on adjacent sidewalks using base standard range of red blend. Bricks used on plazas shall typically be 4" x 8" size.
B03.1.2. Sculptures, Markers and Statuary

1. Relate new sculpture, markers and statuary to the base's architectural design theme. Generally limit these elements to frequently used locations adjacent to Facility Group 1 and highly traveled community pedestrian spaces.

2. Consider entry gates as possible sites for new displays.

3. All proposed memorials shall follow AFI 36-3108 and be limited to highly deserving individuals or groups as deemed appropriate by the installation leadership. Living memorials (tree plantings / etc.) are discouraged due to added maintenance requirements.

4. When sculpture requires a base, match the materials and / or color palette of adjacent buildings.

5. Use direct or indirect lighting to accentuate features or enhance an intended effect.

6. Ensure that all sculpture, markers and statuary are honorable and inspiring, provide a sense of place, positively contribute to the base's visual quality, and encourage pride for the community and the US Air Force.
B03.1.3. Static Display of Aircraft

- **Applicable**  ☑  **N/A**  Select number of graphics / images (large: 800 px x 440 px) to insert 1
- **Applicable**  ☑  **N/A**  Select number of graphics / images (small: 250 px x 188 px) to insert 3

### Static Display of Aircraft

1. Follow IFS base-wide standards for all elements of the display area with specific attention to traffic sight lines, pedestrian circulation, site furnishings, signs, and lighting. Address requirements for the Facility District as well.

2. Generally locate concrete base/foundation structures for static displays below grade.

3. At static displays where pedestrian paths are provided, a minimum of one trash receptacle and one bench shall be provided. Receptacle and bench design must conform to IFS requirements.

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**Ground Mounted Display (C-130)**

**Pedestrian Circulation**

**Dynamic Mounting**

**Ground Mounted Lighting**
1. Provide formal spaces for parade and review functions, recreational areas and parks following the base's Installation Development Plan (IDP) and Installation Facilities Standards (IFS). Refer to the Site Furnishings topic for additional information.

2. Maintain preservation areas following the IDP and IFS.

3. Comply with UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings and UFC 4-022-03 Security Fences and Gates for all elements associated with the base's gates and perimeter fence.
4. Identify and describe base-wide utility corridors in the IDP.

5. Base-wide utility infrastructure shall be inconspicuous. Bury utility service lines below grade when adjacent to Facility Group 1 and when economically feasible for Facility Groups 2, 3 and 4. When service lines are located above grade, create an ordered, coordinated appearance.

6. Follow the requirements of this IFS regarding all utility structures and service lines located above grade that visually impact the installation.

7. Where screening of utility equipment and structures is provided, allow adequate and proper clearance for safety and maintenance.

8. Reduce visual clutter and visual impact of the following items through a combination of careful placement, screen walls, landscaping and painting:
   - Electrical switch-stations
   - Sewage lift stations
   - Water well pumps, storage tanks and/or related structures
   - Gas piping, meters and similar incidental items
   - Above ground fuel storage tanks
   - Any ground-mounted freestanding utility item exposed to view

9. Larger structures such as electrical switch-stations, sewage lift stations, fuel storage tanks and mechanical/electrical equipment shall be screened from view, using materials, forms, and colors in the screen walls that match those respective design elements present at adjacent buildings.

10. Paint aboveground equipment and associated components such as electrical piping or exposed plumbing lines dark bronze.

11. Maintain existing buried utility service lines as a visual asset.

12. Bury the following exposed above-grade items in future projects when economically feasible:
   - Electrical power grid and service lines
   - Telephone lines
   - Cable TV lines
   - Communications lines
   - Exterior lighting service lines
   - Any similar system of above-ground lines serving the base

13. Consolidate and enclose service utility lines in underground utility corridors when feasible. Create routes along the inside edge of parking lot islands.

**B03.2.1. Parade Grounds**

- **Applicable**  
- **N/A**  
  Large graphics do not apply

- **Applicable**  
- **N/A**  
  Small graphics do not apply

1. Follow UFC 3-201-02, Appendix B for the planning and design process and criteria for parade grounds.

2. Establish and maintain parade grounds only where there is a confirmed need and provide landscape materials appropriate for the locale following IFS.

3. Bleachers may be installed only when there is a documented requirement at parade grounds. Nonferrous metals that do not require painting or ongoing maintenance are preferred. The Base Civil Engineer shall determine quantities, sizes, and products on a case basis.
B03.2.2. Parks

- **Applicable**  O  N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1

- **Applicable**  O  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  6

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**Insert Parks graphic**

**Size image to:**

- **800 pixels width x 440 pixels in height**

- **Click here to insert image**

  (jpg or png format)

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Park Setting

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**Insert Parks graphic**

**Size image to:**

- **250 pixels width x 188 pixels height**

- **Click here to insert image**

  (jpg or png format)

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Park Pavilion

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**Insert Parks graphic**

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- **250 pixels width x 188 pixels height**

- **Click here to insert image**

  (jpg or png format)

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Park Seating

---

**Insert Parks graphic**

**Size image to:**

- **250 pixels width x 188 pixels height**

- **Click here to insert image**

  (jpg or png format)

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Park Green
1. Bleachers may be installed only when there is a documented requirement at parks and fields for recreational events. Follow guidance under Parade Grounds.

2. Picnic pavilions may be provided in parks where there is a documented need.

3. Prohibited picnic pavilion materials include wood, concrete masonry units, or metal pre-manufactured storage sheds.

4. When picnic pavilions are permitted near facilities, generally match the architecture of the adjacent facility and provide a level of quality of the adjacent facility group number.

**B03.2.3. Preserves**

- **Applicable**  
  - **N/A** Large graphics do not apply
- **Applicable**  
  - **N/A** Select number of graphics / images (small: 250 px x 188 px) to insert  
  - ![Image Tool 250 x 188](image_tool)

1. Preserve areas adjacent to runways, taxiways, aprons, golf course roughs, storage areas, antenna facilities, and ammunition storage areas as open space.

2. Provide minimal maintenance with mowing as needed for controlling bird behavior for airfield safety or eliminating fire hazards.
B03.2.4. Perimeter Fence

- **Fence at Temporary Lodging Facility**

- **High Security Fencing**

- **Flight Line Security Fence**

- **Visitor’s Center**
1. Design, install and maintain the base's perimeter fence following UFC 4-022-03.

2. Stringently comply with ATFP requirements following UFC 04-010-01 for all spaces adjacent to the base's perimeter fence and all gates.

3. Fencing, gates and other elements that are associated with the main gates shall be a level of quality equivalent to Facility Group 1.

4. Maintain a positive visual quality along the traffic corridor on both sides of the main gates. Specifically address pedestrian access, circulation and common areas.
C. SITE DEVELOPMENT

Comply with Air Force Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

C01. SITE DESIGN

Comply with Air Force Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Site Design / NEPA:
http://afcfs.wbdg.org/site-development/site-design-nepa/index.html

C01.1. Site Design Considerations

☐ Applicable  ☐ N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1

☐ Applicable  ☐ N/A  Small graphics do not apply

Formal Arrangement of Site Elements

1. Collect documentation to validate approvals and completion of the NEPA process.

2. Ensure site design compliance with the Installation Development Plan (IDP) and its component plans and Installation Facilities Standards (IFS).

3. Promote integrated design with on-site solutions such as engineered small-scale hydrologic controls versus base-wide infrastructure; consider open space, natural features, bioswales, building roofs, streets, and paved surfaces.

4. Limit the impact of development on land and water resources. All site elements and infrastructure shall reinforce an image of sustainability, with reduced energy demand, renewable-energy usage, and water conservation.
5. Consider energy conservation during site design for the following categories: building and site lighting, auxiliary systems and equipment (refrigerators, elevators, etc.), building envelope, electric power and distribution, HVAC systems and equipment, service hot water, and energy management (metering, EMCS).

6. Coordinate on-site renewable-energy systems and components to minimize area requirements and maximize efficiencies. Appropriately buffer and screen these and other mechanical systems and equipment.

7. New building projects should preserve open space and protect natural habitat.

8. Conform to existing topography to the greatest extent possible and use slopes to increase site and building efficiencies. Design sites to minimize irrigation and impacts to stormwater runoff.

9. Carefully study new project sites to identify the character of adjacent buildings, streets, landscaping, and site design elements. Reinforce the existing character in new site design.

10. Consider relationships to adjacent facilities and district / centralized heating and cooling infrastructure and cost effectively connect building systems to harvest heat, grey water or other beneficial byproducts.

11. Minimize existing and planned obstructions from landscaping, structures, topography, and adjacent developments to preserve solar access and natural ventilation.

12. Purposefully integrate service access, receiving and storage areas to eliminate the need for visual screening.

13. Appropriately connect to the base network of streets, sidewalks and trails using drive aisles, parking areas, walkways, paths, and bicycle routes addressing both vehicles and pedestrians.

14. Applicably coordinate heat island mitigation in paving and roof designs when implementing an integrated approach to stormwater management.

15. Consider the location of “Designated Tobacco Areas.”
C01.2. Building Orientation

Applicable  ○ N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1

Applicable  ○ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  6

DRIVING FACTORS

- Optimal solar orientation of the building
- Main entrance from Pepperell street
- Addressing the orientation of the future ACC
- Maximise the daylight & desirable views
- Saving existing vegetation and trees
- Visibility of the new facility from main roads
- Meet the required AEPF stand-off distance
- Separation between staff/office/materials entrance
- Required parking spaces for public and staff
- Create a unified campus
- Outdoor healing environment
- Implementation of landscape zones A, B, C & D

CONCEPTUAL DIAGRAM

Conceptual Site Analysis and Site Design Diagram

Local Solar Data

Local Climate Data

Site Data
1. Ensure the site will accommodate optimum requirements for building orientation, which is with the long axis parallel to the east/west direction for rectilinear CONUS buildings.

2. Meet Installation Facilities Standards (IFS) requirements for the locations of the building’s passive and renewable-energy systems—including geothermal and solar systems—and exterior shading systems.

3. Locate the building(s) and permitted ancillary structures to promote solar gain, solar shading, natural ventilation, rainwater harvesting, wind buffering and other beneficial passive systems. Consider natural ventilation during the design of HVAC systems.

4. Consider relationships to adjacent sites and their facilities and infrastructure, and cost effectively integrate building systems to harvest heat, grey water or other beneficial byproducts.

5. Consider the “public side” of the building, its views and the location of the main entrance.

C02. UTILITIES
Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Utilities:
http://afcfs.wbdg.org/site-development/utilities/index.html

C02.1. Utility Components
☐ Applicable  ☐ N/A  Large graphics do not apply

☐ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  5
1. Provide all on-site utility service lines below grade for Facility Group 1; when mounting elements (such as utility cabinets, communications equipment and water valves) above grade is unavoidable, paint these consistently and provide visual screening following Installation Facilities Standards (IFS).

2. Provide installation of utility infrastructure to support near term and future electric vehicle charging stations.

3. Define all service entry points into the building and route distribution below grade into an interior space within the facility; exposed conduits, cables and wires on exterior walls are not permitted for Facility Group 1.

4. Include consideration of appropriate placement of meters in support of Automated Revenue Management Services (ARMS).

5. Limit exterior mechanical distribution systems such as exterior steam, chilled water, and hot water distribution to Group 3 facilities; when required for Group 1 and 2 facilities integrate with the architecture and provide visual screens following IFS.

6. Direct roof drainage to underground collection when feasible or provide splash blocks / paved channels to intercept roof drainage at grade.

C03. PARKING AREAS
Comply with AF Corporate Standards for Site Development: http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Parking Areas: http://afcfs.wbdg.org/site-development/parking-areas/index.html
C03.1. Configurations and Design

☐ Applicable  ☑ N/A  Large graphics do not apply

☑ Applicable  ☑ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert 6

1. Evaluate adjacent sites and cost-effectively consolidate parking areas to maximize efficient use; ensure that all areas meet accessibility guidelines.

2. Generally envision on-site parking as a series of small connected singular areas selectively placed around the facility served, rather than a single large area; buffer parking areas from the facility main entrance with a transition space and provide drop-offs to decrease close-in parking. Comply with IFS while meeting ATFP requirements.

3. Integrate at-grade and raised-profile curbing, permeable paved areas, and parking islands with the stormwater system and direct stormwater to bioswales and rain gardens as source water for regionally appropriate native vegetation.

4. Define pedestrian access with approved hardscape and provide shading along the primary path from the parking area to the building’s main entrance.

5. Coordinate suitable landscape or barriers integrated with walls and fences to ensure adequate force protection.

6. Accessible parking spaces shall be marked according to UFC 3-120-01 and its references in ABAAS and the MUTCD.
C03.1.1. Paving and Striping

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert

Facility Group 1 paving materials shall be as follows.

- Primary: Asphaltic concrete
- Secondary: Concrete
- Accent: Permeable pavers

Facility Group 2 paving materials shall be as follows.

- Primary: Asphaltic Concrete
- Secondary: Concrete
- Accent: N/A

Facility Group 3 paving materials shall be as follows.

- Primary: Concrete where operationally required
- Secondary: Asphaltic Concrete
- Accent: N/A

Facility Group 4 paving materials shall be as follows.

- Primary: Asphaltic Concrete
- Secondary: N/A
- Accent: N/A

1. All new parking lots in Groups 1 and 2 shall be constructed of Asphaltic concrete pavement following UFC 3-250-01.
2. Porous paving may be considered on a case basis.
3. Cost-effectively provide light-colored concrete to reduce heat island effect; otherwise install asphaltic concrete paving. Dirt, gravel, and grass lots are not allowed.
4. Use consistent striping, angles and stall sizes in all parking areas.
5. All parking shall be marked with white stripes of paint or applied vinyl coatings. Red or yellow markings shall only be used for safety purposes and must be kept to a minimum. All lines shall be four inches (4”) wide.
C03.1.2. Curbing

Facility Group 1 curbing / edging materials shall be as follows.
Primary: Concrete
Secondary: N/A
Accent: N/A

Facility Group 2 curbing / edging materials shall be as follows.
Primary: Concrete
Secondary: N/A
Accent: N/A

Facility Group 3 curbing / edging materials shall be as follows.
Primary: Concrete
Secondary: N/A
Accent: N/A

Facility Group 4 curbing / edging materials shall be as follows.
Primary: Concrete
Secondary: N/A
Accent: N/A

1. Define all parking lots with either raised-profile or at-grade curbing to promote drainage and protect paving edges. All raised curbs shall be the barrier type.

2. Integrate curbing to direct stormwater to bioswales and rain gardens as source water for regionally appropriate native vegetation.

3. Wheel stops are not permitted except at locations where vehicle bumpers could contact adjacent items such as poles, signs or pedestrians.
C03.1.3. Internal Islands and Medians

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

1. Install landscape islands and medians as visual breaks, to reduce heat island effects and to accommodate bioswales and rain gardens with consideration for snow removal. Coordinate suitable landscape or barriers integrated with walls and fences to ensure adequate force protection.

2. When lighting is necessary, contain fixture bases within medians or internal landscape islands.

C03.2. Parking Structures

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Small graphics do not apply

1. Parking structures are encouraged in land-constrained locations when economically feasible.

2. Consider near-term and future electric vehicle charging stations and renewable energy generation development during the analysis and design.

3. Consider opportunities for integrating parking structures into multi-use developments with pedestrian-oriented uses on the ground floor and parking on upper levels; ensure ATFP guidelines are fully addressed.

4. Structures may be constructed below grade with roofs serving as vegetated areas or plazas.
C03.3. Connectivity

- Applicable  N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1

- Applicable  N/A  Small graphics do not apply

1. Refer to the Installation Development Plan (IDP) for locations of transit stops and pedestrian and cycling networks; provide appropriately sized sidewalks and bike paths to connect facilities and users to these networks.

2. Provide amenities such as rain and shade shelters, trees, and benches to encourage and facilitate use of public transportation.

3. Evaluate the IDP for the current and planned network of roads and optimally develop vehicular access to and from the site.

C04. STORMWATER MANAGEMENT

Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Stormwater Management:
C04.1. Stormwater Requirements

Applicable  N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1

Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  6

Gentle Grades in Topography and Grassy Basins with Pervious Subgrade Materials

Drainage Swale Greenway  Berm Topography to Slow Drainage  Bioswale
1. Design all stormwater systems including retention ponds, detention areas, channels, etc. as on-site amenities that are consistent with natural systems and drainage patterns, that help sustain the base landscape with beneficial functionality and that provide aesthetic appeal; coordinate with the base Stormwater Management Plan.

2. Incorporate bioswales into the design of all roadway, parking and facility roof systems to enhance water quality and support the overall stormwater system.

3. When underground drainage systems are required establish a maintenance program to include removal of sediments and debris; inspect joints seasonally for alignment to prevent leakage and the development of voids and surface failures.


C05. SIDEWALKS, BIKEWAYS AND TRAILS

Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Sidewalks, Bikeways and Trails:
http://afcfs.wbdg.org/site-development/sidewalks-bikeways-trails/index.html
C05.1. Circulation and Paving

Applicable  ○ N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1

Applicable  ○ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  6

Connection to Adjacent Parking

Concrete Paving in Group 2  Connection to Monuments  Brick Pavers in Group 1
Facility Group 1 sidewalks, plazas, and courtyards paving materials shall be as follows.

Primary: Concrete Paving and Edging
Secondary: N/A
Accent: Colored Concrete (Optional)

Facility Group 2 sidewalks, plazas, and courtyards paving materials shall be as follows.

Primary: Concrete Paving and Edging
Secondary: N/A
Accent: Colored Concrete (Optional)

Facility Group 3 sidewalks, plazas, and courtyards paving materials shall be as follows.

Primary: Concrete Paving and Edging
Secondary: N/A
Accent: N/A

Facility Group 4 sidewalks, plazas, and courtyards paving materials shall be as follows.

Primary: Concrete Paving and Edging
Secondary: N/A
Accent: N/A

1. Maintain efficient geometry and accessibility to connect building entrances to adjacent parking areas and activity areas and to the base transportation system following ATFP. Efficiently use materials to optimize life-cycle costs and to minimize maintenance.

2. Generally conform horizontal layouts of sidewalks to the geometric configuration of adjacent buildings, streets, parking lots, and other adjacent related site amenities. Occasional meanders and/or jogs may be included to capture views, to coordinate with landscaping or accommodate site constraints.

3. Walks in parking areas shall provide a direct path using "safe islands" and "peninsulas" to encourage safety. Walks parallel to streets shall follow streetscape guidelines. Clearly mark pedestrian crossings at vehicular routes.

4. Mitigate heat island effect by providing high-albedo, shaded sidewalks. Pervious pavers shall be used on all sidewalks, plazas and courtyards in Facility Groups 1 and 2; use pervious concrete in Groups 3 and 4. The designer shall incorporate appropriate expansion and construction joints.

5. Only experienced contractors will install pervious pavements.

6. Consider an integrated approach that could include stormwater management (permeable surfaces) and complement the design of the storm drainage system when appropriate.

7. Pedestrian paths should be at least 5' in width to allow for comfortable side-by-side walking.

8. Sidewalks leading to a building main entrance and at the interior of parking lots shall be a minimum width of 6'. Walks greater than 10' wide may be used at high-density pedestrian areas where volumes of traffic justify added material.
9. Where vehicles park adjacent and head-in to the sidewalk and wheel stops are not used, such perimeter walks shall be increased to a minimum width of 8’ to accommodate overhangs of the parked vehicles.

10. All sidewalks shall have positive drainage to prevent ponding of water or ice accumulation with slopes ranging from 2.1% to 4.2%. Walks with a slope greater than 4.2% shall be designed as ramps following accessibility guidelines. All walks shall have a minimum cross slope of 2.1%.

11. Pavers shall conform to the following range of color: red blend. Pavers used on walks shall typically be 4x8 in size.

12. Connect to the bicycle circulation system and provide bicycle parking with a suitable means for securing bicycles following IFS. Consider changing/shower facilities for use by cyclists.

13. Refer to the Installation Development Plan for future trails, bicycle paths, and sidewalks.

**C05.1.1. Ramps and Stairs**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

**C05.1.2. Lighting**

- Applicable  N/A  Large graphics do not apply
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  6
1. Provide lighting for all stairs and landings where traffic warrants.

2. Refer to the Lighting section for path lighting along sidewalks, bikeways and trails.

C06. LANDSCAPE

Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Landscape:
http://afcfs.wbdg.org/site-development/landscape/index.html

C06.1. Climate-based Materials

- Applicable    N/A    Large graphics do not apply
- Applicable    N/A    Select number of graphics / images (small: 250 px x 188 px) to insert 3

1. Use only native, naturally occurring, drought tolerant indigenous plant species (including grasses) appropriate for the locale to promote energy efficiency and water conservation, preserve drainage patterns, inhibit erosion, improve air quality, lower maintenance, and add beauty.

C06.1.1. Landscape Design Concept

☐ Applicable ☐ N/A Large graphics do not apply

☐ Applicable ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert 3

Native Grasses with trees
Drought tolerant grasses
Integrated Stormwater Greenway

1. Develop, maintain and implement a climate-based plant list with landscape features using a regionally appropriate palette of materials to promote energy efficiency, preserve drainage patterns, inhibit erosion, improve air quality, lower maintenance and add beauty. Follow UFC 3-201-02 Landscape Architecture.

2. Landscaping is required for all newly developed sites and facilities; preserve existing native landscape where possible and avoid overplanting.

3. Concentrate landscaping in Facility Group 1 and along major thoroughfares and integrate these landscaped areas into the base’s stormwater management plan. Refer to the Streetscape Envelope Standards in this IFS.

4. All Facility Group 1 and 4 sites shall be landscaped at their entire perimeter; limit formal planting arrangements to formal spaces typically associated with Group 1. Landscape public spaces near the main entrances of Group 1 facilities.

5. Facility Group 2 and 3 sites may have a native undisturbed landscape except at the main entrances of Group 2, which should be newly landscaped.

6. Facility plantings shall follow the Installation Facilities Standards (IFS) plant list, which is based on the specific microclimates created by the adjacent building: shadow areas, protected areas, zones adjacent to thermal mass, and availability of rainwater and/or grey water.

7. Provide open spaces as transitions between developed and native areas that promote quality of life and provide visual relief and allow walkable connections to the transportation system.

8. Return suitable areas to a natural state to minimize and, whenever possible, eliminate ground maintenance requirements; expand prairie areas where appropriate with native plants to eliminate mowing and maintenance requirements.

9. In tree clusters replace grass with naturalized shrub beds and leaf litter mulch to eliminate mowing requirements.

10. Use plantings in open spaces to reinforce the space as a visual asset.

11. Consider landscape windbreaks when suitable for the local climate.

12. Integrate security requirements into the landscape design. Coordinate the heights of trees and shrubs and note restrictions for plantings following UFC 4-010-01.

13. Berms may be used as an integral part of the overall landscape strategy for screening, security and/or visual interest.
C06.1.2. Xeriscape Design Principles

☐ Applicable  ☐ N/A  Large graphics do not apply

☐ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

Xeric Planting with Wood Mulch  Drought Tolerant Species  Shading Species

1. Apply xeriscape principles following UFC 3-201-02, Appendix B, and Air Force Corporate Facilities Standards.

2. Facility plantings are encouraged to use native plant species and to consider specific microclimates created by the adjacent building: shadow areas, protected areas, zones adjacent to thermal mass, and availability of rainwater and/or grey water.

C06.1.3. Minimizing Water Requirements

☐ Applicable  ☐ N/A  Large graphics do not apply

☐ Applicable  ☐ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

Raised Planting Beds  Limited Ornamental Planting  Native Grasses

1. Reasonably reduce demand on potable water while seeking opportunities to increase alternative water sources for irrigation. Reduce or eliminate the use of potable/domestic water for purposes of landscape architecture maintenance, consistent with legal or contractual obligations, and prohibit potable-water irrigation in new construction beyond establishment following current DoD and Air Force policy.
C06.1.4. Plant Material Selection

☐ Applicable  ☒ N/A  Large graphics do not apply

☐ Applicable  ☒ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert

1. Use only native, naturally occurring plant materials including grasses or turf suited for the local climatic conditions in the landscape design; potable-water irrigation systems are discouraged beyond the establishment period.

2. New facilities are encouraged to use native plant species as indicated on the plant lists available from the Base Civil Engineer.

3. Trees should be the focus of landscape plantings and, where possible, should be a mix of deciduous and evergreen species for variety; provide tree grates when appropriate and use tree guards on smaller trees.

4. Ground covers are only recommended when minimal maintenance is required.

5. Turf areas should be limited to those that can be sustained by natural rainfall or grey water (non-potable) irrigation systems; turf may be defined by at-grade concrete mow strips to lessen maintenance.

6. Analyze soils and provide organic amendments as needed to improve plant growth and conserve water.

7. All plant material shall have one-year warranty and is subject to approval by the Base Landscape Architect.

8. Use only plant material that is on the approved species list. See Appendix G.
C06.1.5. Water Budgeting (Hydrozones)

1. Comply with DoD and Air Force policy on potable-water irrigation systems.


3. New buildings shall cost-effectively integrate a grey-water reclamation system following UFC 1-200-02, which provides source water for an automatic drip irrigation system; connect adaptive plantings adjacent to facilities to a grey-water irrigation system when available and discontinue the use of potable water for irrigation after the establishment period.

4. Provide irrigation design following UFC 3-201-02. Install drip irrigation products and components following UFGS Section 32 84 24 Irrigation Sprinkler Systems. Match the color of valve box lids to the adjacent ground treatment (i.e. green at turf & native seed areas, brown at wood mulch & rock areas).

5. Life cycle cost-effectively equip irrigation systems to sense soil moisture, rainfall and wind to minimize unnecessary watering; incorporate drip irrigation systems as the primary source.

C06.1.6. Base Entrance Landscaping

Grasses in open Space

Low-Level Accent Planting

Variations in Color
1. At the main gate, reinforce a sense of arrival through a well-designed concentration of landscape elements consistent in visual quality with Facility Group 1.

2. Ensure landscaping has seasonal features with spring and fall color and a combination of evergreen and deciduous trees and shrubs for winter interest.

3. Integrate base signs and street and pedestrian lighting whenever feasible.

**C06.1.7. Streetscape Landscaping**

- **Applicable**  
- **N/A**  
  - Large graphics do not apply

![Image Tool 250 x 188](Image Tool 250 x 188)

1. Provide landscape designs with plant materials appropriately representing the level of quality of the adjacent Facility Group number. Refer to the Installation Elements section.

2. Select a variety of regionally appropriate streetscape plantings and grading to create a visual interest.
C06.1.8. Pedestrian Circulation Landscaping

- Applicable  N/A Large graphics do not apply
- Applicable  N/A Select number of graphics / images (small: 250 px x 188 px) to insert 6

Image Tool 250 x 188

1. Define walkways with landscaping where appropriate.
2. Provide rest areas along the pedestrian circulation network with human-scaled deciduous shade trees. Supplement tree plantings with finely textured shrubs when appropriate for the climate.
3. Provide wind breaks where required.
C06.1.9. Parking Lot Landscaping

☐ Applicable  ☑ N/A  Large graphics do not apply

☐ Applicable  ☑ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

1. Integrate appropriate landscaping elements into parking areas to visually soften the appearance at a minimum rate of 10 percent of the total area.

2. Avoid trees that drop sap, fruit, or seeds, and use long-lived species; keep trees trimmed, removing dead and dying trees or branches.

3. Provide planting in islands within parking lots for shade and appeal following IFS and the base stormwater management plan.

4. Rain garden islands shall be landscaped to receive rainwater runoff from adjacent impervious parking areas to be absorbed into the ground/planting bed. Native plants and groundcovers are recommended within the rain garden areas, which can survive without supplemental irrigation once established.

C06.1.10. Screen/Accent Landscaping

☐ Applicable  ☑ N/A  Large graphics do not apply

☐ Applicable  ☑ N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

1. Provide complimentary accent landscaping at monuments and static displays.

2. At Facility Group 1, provide landscaping adjacent to all freestanding signs without distracting from the written communication.
3. Provide landscape screening of utility elements adjacent to Facility Group 1.

4. Providing landscaping as visual screening is preferred to the construction of walls and fences; berming and mounding may supplement landscape screening.

**C06.1.11. Other**

- [ ] Applicable  [ ] N/A Large graphics do not apply
- [ ] Applicable  [ ] N/A Small graphics do not apply

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**C07. SITE FURNISHINGS**

Comply with AF Corporate Standards for Site Development:
[http://afcfs.wbdg.org/site-development/index.html](http://afcfs.wbdg.org/site-development/index.html)

Comply with AF Corporate Standards for Site Furnishings:

**C07.1. Furnishings and Elements**

- [ ] Applicable  [ ] N/A Large graphics do not apply
- [ ] Applicable  [ ] N/A Select number of graphics / images (small: 250 px x 188 px) to insert 3

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1. Provide a coordinated consistent inventory of site furnishings to positively contribute to the visual environment, image, and identity of the base; ensure durability, low maintenance, reduced visual clutter, and compatibility with the adjacent architecture.

2. Remove poorly located or redundant litter / ash receptacles, newspaper and bicycle racks, telephone booths, vending machines, walls and fences to reduce visual clutter and to lessen the requirements for maintenance.

3. Group 1, 2, and 3 site furnishings shall be dark bronze powder coated metal. Generally match the site furniture of adjacent facilities and the facility district.

4. Install needed outdoor seating (benches and low walls) in public gathering spaces near main and secondary building entrances. Low walls shall match facility architecture.

5. Benches in Groups 1, 2 and 3 shall be dark bronze powder coated metal. Provide dark bronze powder coated metal benches in Group 4 and parks. Recycled plastic benches may also be provided in Group 4 and parks.
6. Integrate functional bicycle racks with the design of the building’s main entrance grounds in Facility Groups 1 and 2 while meeting ATFP requirements.

7. Limit the use of bollards, but when necessary for force protection use dark bronze round dome type design in Groups 1 and 2. Painted steel pipe bollards in Group 3; and cast iron bollards in Group 4 and parks and trails. Illuminated bollards may be used as approved on a case basis.

8. Locate architecturally coordinated containers for recycling, litter, ash, vending, etc., to minimize visual clutter and not be visible from the building’s main entrance. Minimize the use of freestanding planters.

9. Generally limit picnic tables, barbeque grills and drinking fountains to lodging, dormitories, housing areas, parks and recreation areas following IFS.

10. The Installation Flagpole location shall comply with the guidance for the display of flags in AFI 34-1201. Each Air Force installation is authorized to fly one United States Flag, normally in front of the installation headquarters. Waivers for non-authorized locations must be submitted in accordance with AFI 33-360 and approved waivers (AF Form 679) must be maintained by the installation protocol office.

11. Refer to the Overview Section “Facility Hierarchy” topic of this AFCFS for guidelines regarding ancillary structures such as pavilions and shade shelters.

12. Bus shelters shall be provided only where there is a documented need and when approved on a case basis. Generally emulate the designs of adjacent shelters using dark bronze aluminum framed domed roof structures.

13. Monuments and static displays shall be limited. New elements are generally discouraged unless these are fully vetted through the base’s approval process and designed following IFS.

14. When visual screening is necessary, consider landscaping as the first option; screen walls are permitted only in Groups 1 & 2 finished with masonry and dark bronze metal fencing.

15. For fencing, apply the standards for “Products, Materials and Color” in the following section. Limit those with the highest visual quality to Facility Group 1 where there is sustained maintenance. Define all levels of security and visual quality.

16. Do not use chain-link fencing at Group 1, 2 or 4 facilities; Limit the use of barbed-wire outriggers on chain-link fencing at industrial sites, unless required for additional security or protection of assets.

17. Wood fencing may be used in Facility Group 4 and in recreation areas following IFS for material and finish when there is sustained periodic maintenance.

18. Provide trash dumpster enclosures for Group 1 with brick walls to match adjacent facilities and for Groups 2 and 3 with masonry walls to match adjacent facilities; all gates shall be metal factory finished dark bronze.

19. Specify screen wall materials and finishes that do not require painting or maintenance beyond periodic cleaning.

20. Group 1, 2, 3 and 4 picnic tables and seating shall be vinyl clad or powder coated dark bronze. Generally limit picnic tables, barbeque grills and drinking fountains to lodging, dormitories, housing areas, parks and recreation areas.

21. Limit the use of freestanding planters to areas with ongoing maintenance.

22. Provide kiosks only where there is a documented need for visual communication of posted messages. When used, match adjacent facilities in materials and detailing and consolidate kiosks with other site furnishings within 30 feet of major pedestrian paths. Limit kiosks to facility Groups 1 and 2 and parks.

23. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

**C07.2. Site Furnishings Products, Materials and Color**
**Note:** Apply the below base-wide standards for Site Furnishings (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

### C07.2.1. Barbeque Grills

<table>
<thead>
<tr>
<th>Applicable</th>
<th>N/A</th>
<th>Number of base standards</th>
<th>2</th>
</tr>
</thead>
</table>

#### Charcoal

**Type:** Charcoal

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Most Dependable Fountains, Inc.

**Color:** Natural stainless steel

**Finish:** Mill

**Model #:** SS BBQ Grill

**Other:** Concrete foundation, coordinate with Base Architect

**UFGS:** N/A

#### Natural Gas

**Type:** Natural Gas

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** BBQ Coach

**Color:** Natural stainless steel

**Finish:** Mill

**Model #:** 32" 4-Burner

**Other:** Built-in Concrete or masonry, coordinate with Base Architect

**UFGS:** N/A
<table>
<thead>
<tr>
<th>Type: Precast Concrete</th>
<th>Type: Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to: Group 1, Group 2, Group 3</td>
<td>Applies to: Group 1, Group 2, Group 3, Group 4, Other</td>
</tr>
<tr>
<td>Mfr: Materials, Inc.</td>
<td>Mfr: Belson</td>
</tr>
<tr>
<td>Color: Weatherstone Gray</td>
<td>Color: Medium Bronze</td>
</tr>
<tr>
<td>Finish: Standard Finish (Smooth)</td>
<td>Finish: Factory Powder Coat</td>
</tr>
<tr>
<td>Model #: Mesa, Rectangular design</td>
<td>Model #: Tube Frame and Slat Seat</td>
</tr>
<tr>
<td>Other: N/A</td>
<td>Other: Ground mount</td>
</tr>
<tr>
<td>UFGS: N/A</td>
<td>UFGS: N/A</td>
</tr>
</tbody>
</table>
C07.2.3. Bike Racks

- Applicable: Yes
- N/A: No

Number of base standards: 1

Type: **Style 1**

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Brandir International Inc.

Color: Galvanized or Medium Bronze

Finish: Factory

Model #: The Ribbon Bike Rack, RB-07

Other: N/A

UFGS: N/A

C07.2.4. Bike Lockers

- Applicable: No
- N/A: Yes

C07.2.5. Bollards

- Applicable: Yes
- N/A: No

Number of base standards: 4

Type: **Lighted Round Dome Top**

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Lithonia Lighting Products

Color: Dark bronze

Finish: Anodized aluminum

Model #: KBA

Other: Flared cone, 3000K LED Lamp

UFGS: N/A
**Type:** Force Protection, Building Protection

**Applies to:**
- [ ] Group 1
- [ ] Group 2
- [ ] Group 3
- [ ] Group 4
- [x] Other

**Mfr:** Custom

**Color:** Dark Bronze

**Finish:** Powder coat

**Model #:** 6" steel, flat top

**Other:** For Group 3, use only in high visibility areas

**UFGS:** N/A

---

**Type:** Building Protection, steel

**Applies to:**
- [ ] Group 1
- [ ] Group 2
- [ ] Group 3
- [ ] Group 4
- [x] Other

**Mfr:** (Bollard Cover) Reliance Foundry

**Color:** Brown cover may be field painted dark bronze

**Finish:** Factory

**Model #:** 6" Steel pipe, concrete filled, Cover: R-7173

**Other:** A 1" (25.4 mm) rigid conduit and box with shroud may be provided at top of bollard with a receiver/key switch application

**UFGS:** N/A
### Pop-Up Traffic Bollards

| Type:          |  
|----------------|-------------------
| Applies to:    | ![Group 1](#) ![Group 2](#) ![Group 3](#) ![Group 4](#) ![Other](#) |
| Mfr:           | Hercules          |
| Color:         | Dark Bronze       |
| Finish:        | Powder Coat       |
| Model #:       | 8"-12" Diameter   |
| Other:         | Coordinate Crash Rating with BCE |
| UFGS:          | N/A               |

---

### C07.2.6. Bus Shelters

<table>
<thead>
<tr>
<th>Applicable</th>
<th>N/A</th>
<th>Number of base standards</th>
<th>Image Tool 250 x 188</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

| Type:          |  
|----------------|-------------------
| Applies to:    | ![Group 1](#) ![Group 2](#) ![Group 3](#) ![Group 4](#) ![Other](#) |
| Mfr:           | Custom            |
| Color:         | Dark Bronze       |
| Finish:        | Powder coated     |
| Model #:       | Gabled roof       |
| Other:         | Provide concrete slab and 2 pre-manufactured aluminum benches |
| UFGS:          | N/A               |
C07.2.7. Drinking Fountains

Type: Pedestal

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Most Dependable Fountains, Inc.

Color: Natural

Finish: Stainless Steel

Model #: MDF 440 SMSS

Other: Accessible

UFGS: N/A

C07.2.8. Dumpster Enclosures / Gates

Type: 1: Brick and Steel

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Custom

Color: Red brick blend, dark brown doors

Finish: Face brick, powder coated doors

Model #: Match adjacent building

Other: Steel gates and hardware, dark brown, dumpsters shall be painted dark brown

UFGS: Section 04 20 00 Unit Masonry
Type: **2: Steel Framing and Panels**

Applies to:  
- [X] Group 1  
- [ ] Group 2  
- [X] Group 3  
- [ ] Group 4  
- [ ] Other

Mfr: Custom

Color: Dark Bronze

Finish: Powder coated frame, factory finished panels

Model #: Rigid steel posts and framing, vertical alternating panels

Other: N/A

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications

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**C07.2.9. Fencing**

- [X] Applicable  
- [ ] N/A  

Number of base standards 6

Recommended Image: Example of Fencing Type

Size image to: 250 pixels width x 188 pixels height

Click here to insert image

Type: **Style A Barrier: High security, high visibility**

Applies to:  
- [X] Group 1  
- [X] Group 2  
- [ ] Group 3  
- [ ] Group 4  
- [ ] Other

Mfr: Custom

Color: Black or dark bronze

Finish: Powder coated

Model #: Steel posts, rails and pickets (vertical, bent outward at top)

Other: Split Face, beige CMU piers may be used

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications
### Style B Barrier: High security, medium visibility

<table>
<thead>
<tr>
<th>Applies to:</th>
<th>☑ Group 1</th>
<th>☑ Group 2</th>
<th>☑ Group 3</th>
<th>☐ Group 4</th>
<th>☐ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mfr:</td>
<td>Custom</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Black or dark bronze</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish:</td>
<td>Powder coat</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model #:</td>
<td>Steel grid: flat bar stock verticals, round rod horizontals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>Steel posts, horizontal bars, braces, and accessories, in heights, lengths, and gauges as required; Close all ends of tubing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**UFGS:** Section 05 50 13 Miscellaneous Metal Fabrications

---

### Style C Barrier: High security, low visibility

<table>
<thead>
<tr>
<th>Applies to:</th>
<th>☑ Group 1</th>
<th>☑ Group 2</th>
<th>☑ Group 3</th>
<th>☑ Group 4</th>
<th>☑ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mfr:</td>
<td>Custom</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Black or dark bronze</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish:</td>
<td>Powder coated galvanized steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model #:</td>
<td>Chain link, steel posts and rails, gates and accessories</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>Posts and rails in heights, lengths and gauges as required, (see Appendix for Facility Districts requirements)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**UFGS:** Section 32 31 13 Chain Link Fences and Gates
Type: **Style D Barrier: Low security, High visibility**

Applies to:  

- [ ] Group 1  
- [x] Group 2  
- [ ] Group 3  
- [ ] Group 4  
- [ ] Other  

Mfr: Custom

Color: Red brick, dark brown fencing

Finish: Face brick, powder coated metal

Model #: Brick Piers with steel posts, rails and pickets

Other: Brick: 2'x2' (Height as required, equally spaced 12' to 40'), Steel posts: 4"x4" (equally spaced), Rails: 2"x2", Pickets: 1"x1" (6"o.c.); close all ends of tubing

UFGS: Section 04 20 00 Unit Masonry, Section 05 50 13 Misc. Metal

---

Type: **Style E Barrier: Low security, High visibility**

Applies to:  

- [ ] Group 1  
- [x] Group 2  
- [ ] Group 3  
- [ ] Group 4  
- [ ] Other  

Mfr: Custom

Color: Red brick, dark brown fencing

Finish: Powder coated metal

Model #: Brick Piers with steel posts, rails and alternating panels

Other: Brick: 2'x2' (Height as required, equally spaced 8' to 40'), Steel posts: 4"x4" (equally spaced), Rails: 1-1/4"x1-1/2", vertical steel panels spaced alternately on each side of the rails; matching gates; close all ends

UFGS: Section 04 20 00 Unit Masonry, Section 05 50 13 Misc. Metal
Style F Barrier: High Security, Low Visibility

Applies to: [ ] Group 1 [ ] Group 2 [ ] Group 3 [ ] Group 4 [ ] Other

Mfr:

Color:

Finish:

Model #:

Other:

UFGS:

C07.2.10. Flagpoles

Applicable [ ] N/A Number of base standards 1

Type: 1

Applies to: [ ] Group 1 [ ] Group 2 [ ] Group 3 [ ] Group 4 [ ] Other

Mfr: Eder Flag

Color: Natural aluminum

Finish: Satin Lustre

Model #: ECL30 IH, Internal Halyard

Other: 5” Butt Dia. 33’ H (30’ Exposed)

UFGS: N/A

C07.2.11. Lighting – Landscape / Accent

Please refer to the Lighting section.
## C07.2.12. Litter and Ash Receptacles

<table>
<thead>
<tr>
<th>Type: Style 1: Precast concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to: Group 1  ✔ Group 2  ✔ Group 3  ✔ Group 4  ✔ Other</td>
</tr>
<tr>
<td>Mfr: Materials, Inc.</td>
</tr>
<tr>
<td>Color: Weatherstone Gray</td>
</tr>
<tr>
<td>Finish: Smooth</td>
</tr>
<tr>
<td>Model #: TR-3225 Sante Fe (round or square)</td>
</tr>
<tr>
<td>UFGS: N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type: Style 2: Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to: Group 1  ✔ Group 2  ✔ Group 3  ✔ Group 4  ✔ Other</td>
</tr>
<tr>
<td>Mfr: Wabash Valley</td>
</tr>
<tr>
<td>Color: Black or as approved</td>
</tr>
<tr>
<td>Finish: Perforated Pattern</td>
</tr>
<tr>
<td>Model #: Urbanscape “E” with liner, 32 Gallon</td>
</tr>
<tr>
<td>Other: With dome top, without side door</td>
</tr>
<tr>
<td>UFGS: N/A</td>
</tr>
</tbody>
</table>
### C07.2.13. Picnic Tables

<table>
<thead>
<tr>
<th>Type: Precast concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
</tr>
<tr>
<td>Group 1</td>
</tr>
<tr>
<td>Mfr: Materials, Inc.</td>
</tr>
<tr>
<td>Color: Weatherstone Gray</td>
</tr>
<tr>
<td>Finish: Standard Finish (Smooth)</td>
</tr>
<tr>
<td>Model #: TS-3490 New Mexican</td>
</tr>
<tr>
<td>Other: (303) 458-9595</td>
</tr>
<tr>
<td>UFGS: N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type: Metal, vinyl coated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to:</td>
</tr>
<tr>
<td>Group 1</td>
</tr>
<tr>
<td>Mfr: Wabash Valley</td>
</tr>
<tr>
<td>Color: Brown or as approved</td>
</tr>
<tr>
<td>Finish: Factory vinyl coated</td>
</tr>
<tr>
<td>Model #: Signature Series, 46&quot; Square Pedestal Tables with 4 Seats</td>
</tr>
<tr>
<td>Other: Perforated Pattern, In-ground mount</td>
</tr>
<tr>
<td>UFGS: N/A</td>
</tr>
</tbody>
</table>
C07.2.14. Planters

- Type: Precast concrete
- Applies to: Group 1, Group 2, Group 3, Group 4
- Mfr: Materials, Inc.
- Color: Weatherstone Gray
- Finish: Smooth
- Model #: Santa Fe
- Other: N/A
- UFGS: N/A

C07.2.15. Play Equipment

- Type: Steel
- Applies to: Group 1, Group 2, Group 3, Group 4
- Mfr: Little Tikes Commercial
- Color: Varies
- Finish: Powdercoated Steel
- Model #: N-R-G Freestyle
- Other: Coordinate with Base Architect
- UFGS: N/A
### C07.2.16. Screen Walls

**Applicable**: Yes

**Number of base standards**: 4

#### Brick / Steel

<table>
<thead>
<tr>
<th>Type: Brick / Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applies to:</strong></td>
</tr>
<tr>
<td>Group 1</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Mfr:</strong> Custom</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Color:</strong> Red brick, dark brown fencing</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Finish:</strong> Powder coated metal</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Model #:</strong> Brick Piers with steel posts, rails and alternating panels</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Other:</strong> Brick: 2’x2’ (Height as required, equally spaced 8’ to 40’), Steel posts: 4”x4” (equally spaced), Rails: 1-1/4”x1-1/2”, vertical steel panels spaced alternately on each side of the rails; matching gates; close all ends</th>
</tr>
</thead>
</table>

**UFGS:** Section 04 20 00 Unit Masonry, Section 05 50 13 Misc. Metal

---

#### Brick

<table>
<thead>
<tr>
<th>Type: Brick</th>
</tr>
</thead>
</table>

| **Applies to:** |
| Group 1 | Group 2 | Group 3 | Group 4 | Other |
|         | ✔️       | ✔️       |         |       |

<table>
<thead>
<tr>
<th><strong>Mfr:</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Color:</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Finish:</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Model #:</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Other:</strong></th>
</tr>
</thead>
</table>

**UFGS:** 

---

**Recommended Image:** Example of Screen Wall Type

*Size image to: 250 pixels width x 188 pixels height*

*Click here to insert image*
<table>
<thead>
<tr>
<th>Type: Brick and Ground Face CMU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to: □ Group 1 □ Group 2 □ Group 3 □ Group 4 □ Other</td>
</tr>
<tr>
<td>Mfr:</td>
</tr>
<tr>
<td>Color:</td>
</tr>
<tr>
<td>Finish:</td>
</tr>
<tr>
<td>Model #:</td>
</tr>
<tr>
<td>Other:</td>
</tr>
<tr>
<td>UFGS:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type: Split Face CMU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applies to: □ Group 1 □ Group 2 □ Group 3 □ Group 4 □ Other</td>
</tr>
<tr>
<td>Mfr:</td>
</tr>
<tr>
<td>Color:</td>
</tr>
<tr>
<td>Finish:</td>
</tr>
<tr>
<td>Model #:</td>
</tr>
<tr>
<td>Other:</td>
</tr>
<tr>
<td>UFGS:</td>
</tr>
</tbody>
</table>
### C07.2.17. Tree Grates

- **Type:** Cast Iron
- **Applies to:** Group 1, Group 2, Group 3
- **Mfr:** Neenah Enterprises, Inc.
- **Color:** Natural cast iron
- **Finish:** Cast
- **Model #:** 2-Piece, round or square
- **Other:** N/A
- **UFGS:** N/A

### C07.2.18. Other

- **Applicable:** No

### C08. EXTERIOR SIGNS

- Comply with AF Corporate Standards for Site Development: [http://afcfs.wbdg.org/site-development/index.html](http://afcfs.wbdg.org/site-development/index.html)
C08.1. Colors and Types

☐ Applicable ☐ N/A Large graphics do not apply

☐ Applicable ☐ N/A Select number of graphics / images (small: 250 px x 188 px) to insert

1. Provide concise functional signs as a visually unifying element with consistent colors and types for all Installation and Gate Identification Signs; Building Identification Signs; Traffic Control Devices; Directional and Wayfinding Signs; and Informational and Motivational Signs.

2. Provide signs with the lowest overall life-cycle costs considering initial cost, ongoing maintenance and life span while meeting quality standards. Follow IFS for specifications appropriate for the local climate to withstand weathering.

3. Reduce the number of signs, reduce visual clutter and provide only essential signs required for identification, directions, instructions, and customer service following UFC 3-120-01. Remove non-conforming signs during renovation projects.

4. Use clear concise terms for content consistent with UFC 3-120-01.

5. Display of emblems on building exterior walls or other permanent structures is prohibited by UFC.

6. Raised “standout” letters and numbers may be used for Group 1 with approval on a case basis.

7. Group 2 and 3 facilities shall have wall mounted facility signs with sizes and layouts following UFC 3-120-01. Signs are not permitted for Group 4 facilities.

8. Only one identification sign is permitted at each building entrance. Include a building address consistent with US Postal Service protocols following UFC 3-120-01.

9. Traffic Control Devices, which regulate vehicular traffic on the installation, shall conform to the standards in the Manual of Uniform Traffic Control Devices (MUTCD) published by the Federal Highway Administration. Coordinate street signs with this IFS.

10. Provide Directional and Wayfinding Signs and address both pedestrian and vehicular traffic following UFC 3-120-01 for size, layout and content.

11. Reserved parking signs should be kept to a minimum. When approved, provide post-mounted sign faces in base standard materials and colors. Consider "bracketing" a designated area with a single sign at each end.

12. Parking lot identification signs may be used to identify areas or rows within large lots.

13. Follow the guidelines and requirements in ABAAS and the MUTCD for accessible parking signs.

14. Follow UFC 3-120-01 for Informational and Motivational Signs for size, layout and content.
15. Symbols or pictographs (graphic expressions of objects) may be used to indicate service, mandatory / prohibitory, sports, and recreation when rapid communication is necessary.

16. Force Protection signage may be applied to glass doors using white vinyl lettering.

17. Refer to UFC 3-120-01 for prohibited signs, which include those with animated, blinking, chasing, flashing, or moving effects.

18. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

C08.1.1. Materials and Color Specifications

☐ Applicable  ☐ N/A   Large graphics do not apply

☐ Applicable  ☐ N/A   Small graphics do not apply

1. Fabricate sign panels from aluminum sheeting with vinyl sign faces and lettering. Sign posts shall be dark bronze anodized aluminum with capped ends in a concrete base.

2. Fence mounted sign panels may be attached with exposed fasteners.

3. All signage shall follow Federal Highway Administration (FHWA) Manual on Uniform Traffic Control Devices (MUTCD) using standard colors. Refer to MUTCD color specifications, which provide cross-referenced Pantone Matching System (PMS) numbers.
   a. Standard Blue
   b. Standard Dark Bronze (also Federal Standard Color 30040)
   c. Standard Red
   d. Standard Black (non-reflective)
   e. Standard White
   f. Standard Brown

Materials and Color Specifications

☐ Applicable  ☐ N/A   Number of base standards 3

Type:  Typical Sign Fce

Applies to:  ☑ Group 1  ☑ Group 2  ☑ Group 3  ☐ Group 4  ☑ Other

Mfr:  Custom

Color:  Medium bronze

Finish:  Matte vinyl

Model #:  Aluminum flat sheet

Other:  Mount to square posts. Provide sizes following UFC.

UFGS:  Section 05 50 13 Miscellaneous Metal Fabrications
**Type:** Typical Sign Post

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Custom

**Color:** Dark bronze, powder coat finish

**Finish:** Matte

**Model #:** Extruded aluminum with capped top ends

**Other:** Square posts and squared ends. Provide engineered sizes.

**UFGS:** Section 05 50 13 Miscellaneous Metal Fabrications

---

**Type:** Typical Sign Base

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Custom

**Color:** Natural Gray

**Finish:** Sonotube-formed

**Model #:** 24” height x 12” diameter, as engineered.

**Other:** At grade with 3/4” chamfer. Provide engineered sizes.

**UFGS:** UFGS 03 30 00 Cast-in-place Concrete
C08.1.2. Installation and Gate Identification Signs

Type: Primary, Secondary and Tertiary (Uses per UFC)

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Custom

Color: Dark bronze, brushed aluminum, accents per UFC

Finish: Powder coat or vinyl sign face

Model #: Metal frame and panels, buff stone base

Other: White vinyl lettering. Provide dimensions per UFC. Secondary signs shall match primary sign’s materials, but shall be smaller in size per UFC. Tertiary signs shall follow the UFC.

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications

C08.1.3. Building Identification Signs

Type: Freestanding Primary Sign (Sizes and Uses per UFC)

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Custom

Color: Medium brown face, dark bronze posts, white vinyl lettering

Finish: Powder coat or vinyl sign face

Model #: Aluminum sheet face, extruded aluminum posts

Other: Provide layout and sizes per UFC.

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications
Type: **Freestanding Secondary Sign (Sizes and Uses per UFC)**

Applies to:  

- [ ] Group 1  
- [ ] Group 2  
- [ ] Group 3  
- [ ] Group 4  
- [x] Other

Mfr: Custom

Color: Medium brown face, dark bronze posts, white vinyl lettering

Finish: Powder coat or vinyl sign face

Model #: Aluminum sheet face, extruded aluminum posts

Other: Provide layout and sizes per UFC.

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications

---

Type: **Freestanding Tertiary Sign (Sizes and Uses per UFC)**

Applies to:  

- [ ] Group 1  
- [ ] Group 2  
- [x] Group 3  
- [ ] Group 4  
- [x] Other

Mfr: Custom

Color: Medium brown face, dark bronze posts, white vinyl lettering

Finish: Powder coat or vinyl sign face

Model #: Aluminum sheet face, extruded aluminum posts

Other: Provide layout and sizes per UFC.

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications
### Wall Mounted

- **Applies to:**
  - [ ] Group 1
  - [ ] Group 2
  - [ ] Group 3
  - [ ] Group 4
  - [ ] Other

- **Mfr:** Custom

- **Color:** Medium brown, white lettering

- **Finish:** Satin vinyl applied to aluminum sheet

- **Model #:** Aluminum sheet with vinyl face and vinyl lettering

- **Other:** Provide layout and sizes following UFC.

- **UFGS:** N/A

### Glass Mounted

- **Applies to:**
  - [ ] Group 1
  - [ ] Group 2
  - [ ] Group 3
  - [ ] Group 4
  - [ ] Other

- **Mfr:** Custom

- **Color:** White vinyl lettering

- **Finish:** Matte vinyl

- **Model #:** Machine-cut sheet vinyl

- **Other:** Apply vinyl lettering to glass. Provide sizes following UFC.

- **UFGS:** N/A
C08.1.4. Traffic Control Devices (Street Signs)

Type: **Street Signs**

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Custom

Color: White reflective lettering on a Standard Brown background

Finish: Powder coat or vinyl sign face

Model #: Aluminum sign face, control arm or pole mounted

Other: Mount 7’ above grade minimum, pictographs and logos are prohibited on street name signs per UFC.

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications

---

C08.1.5. Directional and Wayfinding Signs

Type: **Vehicular**

Applies to: Group 1, Group 2, Group 3, Group 4, Other

Mfr: Custom

Color: Medium brown face, dark bronze posts, white reflective lettering

Finish: Powder coat or vinyl sign face

Model #: Aluminum sheet face, extruded aluminum posts

Other: Conform to the requirements of the MUTCD and its DoD Supplement. Provide types and sizes where required by UFC.

UFGS: Section 05 50 13 Miscellaneous Metal Fabrications
**Type:** Pedestrian

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Custom

**Color:** Medium brown face, dark bronze posts

**Finish:** Powder coat or vinyl sign face

**Model #:** Aluminum sheet face, extruded aluminum posts

**Other:** White vinyl lettering. Provide types and sizes where required by UFC.

---

**UFGS:** Section 05 50 13 Miscellaneous Metal Fabrications

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### C08.1.6. Informational Signs

- **Applicable**
  - **N/A** Large graphics do not apply

- **Applicable**
  - **N/A** Small graphics do not apply

1. Minimize informational signs such as static display signs, hours of operation, and project signs to reduce visual clutter.

2. Static display signs shall have standard dark bronze.

3. Hours of operation signs shall have a level of quality equivalent to the Facility Group number.

4. Temporary / Project Signage shall be judiciously placed to avoid visual clutter. Schedule and arrange for the removal of these signs prior to installation.

### C08.1.7. Motivational Signage

- **Applicable**
  - **N/A** Large graphics do not apply

- **Applicable**
  - **N/A** Small graphics do not apply

1. Provide professionally produced motivational signs as important elements of campaigns to boost morale, improve safety, aid in recruiting, and accomplish other motivational objectives. Consolidate this signage to reduce visual clutter.

2. Motivational signs shall be limited to an electronic "marquee" type changeable sign near each gate. Temporary signs are not permitted. Motivational information may also be posted in a small, printed format on kiosks in specified, high pedestrian use areas. Refer to kiosks under Site Furnishings.

3. Follow UFC 3-120-01 for color and layout. Note that animated, blinking, chasing, flashing, or moving effects are prohibited by the UFC.

4. Mount marquee signs on reinforced concrete bases with a natural warm gray color.
C08.1.8. Parking Lot Signs

☐ Applicable  ☐ N/A

C08.1.9. Regulatory Signs

☐ Applicable  ☐ N/A  Number of base standards 1

Image Tool 250 x 188

Type:

Applies to:  □ Group 1  □ Group 2  □ Group 3  □ Group 4  □ Other

Mfr:

Color:

Finish:

Model #:

Other:

UFGS:

1. Regulatory signage, which restricts, warns and advises, shall be limited to those mandated under Highway/Traffic, Government Warning, and/or Parking Regulation. Follow UFC 3-120-01 and its industry references for color and layout.

2. Provide a comprehensive, systematic approach to regulatory signage to avoid clutter and confusion from “over signage.”

3. Maintain base warning signs for safety and security at the base perimeter and at specific secure areas. Use these to notify visitors of restrictions governing conduct on the base, as well as other security procedures.

C08.1.10. Other

☐ Applicable  ☐ N/A

C09. LIGHTING

Comply with AF Corporate Standards for Site Development:
http://afcfs.wbdg.org/site-development/index.html

Comply with AF Corporate Standards for Lighting:
http://afcfs.wbdg.org/site-development/lighting/index.html
C09.1. Fixtures and Lamping

1. Provide, coordinate and efficiently install street, parking lot, sidewalk and facility lighting with appropriate luminaires, lamping, placement and spacing following UFC 3-530-01 and Installation Facilities Standards (IFS); ensure the level of quality is consistent with the adjacent facility group number. Pole-mounted, wall-mounted and bollard fixtures are permitted.

2. Integrate controls to automatically reduce lighting power during periods of non-activity; automatically turn off power when sufficient daylight is available.
3. Ensure continuity and consistency of lighting elements. In new construction generally match post types, fixture types, styles, heights, sizes, materials, colors, and lamp types of adjacent facilities and the facility district.

4. Economically provide renewable-energy power sources such as solar photovoltaic when feasible.

5. Use appropriately designed or shielded luminaires to direct light downward to minimize light pollution and intrusion onto adjacent sites and to facilitate night training.

6. Calculate illuminant levels for all lighting applications following UFC 3-530-01 and ensure compliance with pre-curfew maximum brightness level requirements.

7. Sufficiently address environmental factors to prevent corrosion and weathering of fixtures, plinths and other components.

8. Wall mounted fixtures should respond to the architectural character of the facility.

9. Efficient accent lighting of architectural and landscape features may be provided for Group 1, lodging and historical applications. Accent lights in ground-mounted locations may be provided for static displays and signs when these do not conflict or cause hazards with overhead aircraft.

10. Comply with UFC 3-530-01 for light source technology and lamp types. High efficiency lamping such as LED is preferred for most applications.

11. Provide round tapered, square non-tapered, or round non-tapered aluminum poles and aluminum fixtures with square, rectangular or circular housings in colors and shapes to match adjacent facilities and the facility district.

12. Install lighted bollards only at Group 1 and high-traffic Group 2 facilities. Generally match materials, colors and shapes of adjacent facilities and the facility district.

13. Install natural warm gray color, smooth finished concrete bases for all poles in heights appropriate for the facility group and application. Generally Groups 1, 2 and 4 shall have at-grade bases. Group 3 shall have taller bases for added durability.

14. When parking lot lighting is necessary, provide an illuminated path to the building's main entrance. Pole bases should be contained within an internal landscape median or island.

15. Consistently install lighting for sidewalks, bikeways and trails to match adjacent facilities.

16. Landscape accent lighting may be used in public gathering spaces and in Group 1 facilities. Coordinate the design, luminaire selection, and placement with the location of trees, shrubs, and site furnishings.

17. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

**C09.2. Light Fixture Types**

**Note:** Apply the below base-wide standards for Light Fixtures (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.
### C09.2.1. Street Lighting

<table>
<thead>
<tr>
<th>Type:</th>
<th>Style 1</th>
</tr>
</thead>
</table>
| Applies to:   | - Group 1  
|               | - Group 2  
|               | - Group 3  
|               | - Group 4  
|               | - Other          |
| Mfr:          | Hubbell, Kim Lighting       |
| Color:        | Dark Bronze Anodized (or Clear Anodized as approved by BCE) |
| Finish:       | Factory                     |
| Model #:      | Rectilinear Cutoff, Single Arm or Dual Arm Mount |
| Other:        | Lamp: LED. Follow manufacturer’s recommendations for fixture base. |
| UFGS:         | N/A                          |

<table>
<thead>
<tr>
<th>Type:</th>
<th>Style 2</th>
</tr>
</thead>
</table>
| Applies to:   | - Group 1  
|               | - Group 2  
|               | - Group 3  
|               | - Group 4  
|               | - Other          |
| Mfr:          | Hubbell, Kim Lighting       |
| Color:        | Clear Anodized as approved by BCE |
| Finish:       | Factory                     |
| Model #:      | Round Cutoff, Single Arm or Dual Arm Mount |
| Other:        | Lamp: LED. Follow manufacturer’s recommendations for fixture base. |
| UFGS:         | N/A                          |
C09.2.2. Parking Lot Lighting

Applicable  N/A  Number of base standards 2

**Parking Lot Style 1**

- **Applies to:** [ ] Group 1  [ ] Group 2  [ ] Group 3  [ ] Group 4  [ ] Other
- **Mfr:** Hubbell, Kim Lighting
- **Color:** Dark Bronze Anodized (or Clear Anodized as approved by BCE)
- **Finish:** Factory
- **Model #:** Rectilinear or Round Cutoff, Single Arm or Dual Arm Mount
- **Other:** Lamp: LED. Follow manufacturer’s recommendations for fixture base.

**Parking Lot Fixture Base**

- **Applies to:** [ ] Group 1  [ ] Group 2  [ ] Group 3  [ ] Group 4  [ ] Other
- **Mfr:** Custom
- **Color:** Natural gray
- **Finish:** Trowel
- **Model #:** Form-cast, round
- **Other:** N/A

**UFGS:** N/A

**UFGS:** Section 03 33 00 Cast-In-Place Architectural Concrete
C09.2.3. Lighted Bollards

Type: **Lighted Round Dome Top**

Applies to: ✓ Group 1  ✓ Group 2  □ Group 3  □ Group 4  □ Other

Mfr: Lithonia Lighting Products

Color: Dark Bronze

Finish: Anodized aluminum

Model #: KBA

Other: Flared cone, 3000K LED Lamp. Follow manufacturer’s recommendations for fixture base.

UFGS: N/A

C09.2.4. Sidewalk Lighting

Type: **Rectilinear Cutoff**

Applies to: ✓ Group 1  ✓ Group 2  □ Group 3  □ Group 4  □ Other

Mfr: Hubbell, Kim Lighting

Color: Dark Bronze Anodized (or Clear Anodized as approved by BCE)

Finish: Anodized aluminum

Model #: Rectilinear Cutoff, Single Arm or Dual Arm Mount

Other: Lamp: LED. Follow manufacturer’s recommendations for fixture base.

UFGS: N/A
C09.2.5. Walls / Stairs Lighting

Type: Style 1

Applies to: Group 1, Group 2

Mfr: Vista Lighting

Color: Dark bronze anodized

Finish: Smooth

Model #: Aluminum Step and Brick Lights, 5230 round louvered

Other: Lamp: LED

C09.2.6. Other

UFGS: N/A
D. FACILITIES EXTERIORS

Comply with Air Force Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

- Applicable  N/A  Select number of graphics / images (large: 800 px x 440 px) to insert  1
- Applicable  N/A  Select number of graphics / images (small: 250 px x 188 px) to insert  3

Little Rock Air Force Base-wide Standard Materials Palette Shown at Group 2

Group 1 Architectural Features

Contemporary Features at Group 3

Group 4 Features

D01. SUPPORTING THE MISSION

Comply with AF Corporate Standards for Supporting the Mission:

D02. SUSTAINABILITY

Comply with Air Force Corporate Standards for Sustainability:
D03. ARCHITECTURAL FEATURES

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Architectural Features:
http://afcfs.wbdg.org/facilities-exteriors/architectural-features/index.html

Insert 3 photos for each facility group.
D03.1. Orientation, Massing and Scale

1. Orient new buildings to maximize energy efficiency, passive solar and daylighting potential of the building; narrow buildings oriented along an east-west axis are preferred to minimize heat gain in the summer months and maximize heat gain in the winter months resulting in less overall energy usage.

2. Provide orthogonal geometry for principal building form; angular geometry may be used sparingly for Group 1 and used only for emphasis at specific areas such as building entrances and stairwells.

3. Maintain a human scale and reduce the visual scale of large buildings with sub-massing related to interior functional operations; create consistent form and scale in adjacent buildings with compatible profiles or silhouettes.

4. Building heights shall not be limited; however, building heights over 2 stories shall be considered on a case basis.

5. Combine functions where practical to avoid a proliferation of small, independent structures.

6. Use and coordinate shading devices with orientation and for function.

D03.2. Architectural Character


2. Respond to the local climate and regional influences with environmentally functional architectural features.

3. For new facilities design generally maintain consistency and visual unity in the character of the adjacent buildings through compatible architectural features: repeated use of similar forms such as roofs, and through recurring elements such as doors, windows, materials and colors.

4. Reinforce the campus environment and educational theme with architectural features expressive of innovation and technology that represents the current AMC Command mission.

5. All facilities shall express sustainability through their orientation, massing, shape, form, materials, and detailing. Provide louvers, fins and other shading devices to control heat gain and glare and to improve energy efficiency.

6. Strive for economical construction without compromising a high-quality, professional appearance.

D03.3. Details and Color

1. Provide a palette of earth-tone colors related to the native landscape in brick, block, stucco and powder-coated metals. Refer to Wall Systems for detailed material listings.

2. Relate the level of architectural detailing to the Facility Group number.

3. Use only integrally colored materials as the predominant exterior building material; do not use materials that require field painting and ongoing maintenance.

4. Provide consistent and compatible colors for every exterior building feature, including walls, roofs, doors, windows, gutters, downspouts, utility and mechanical elements, and other visible elements.

5. Noncorrosive metals with factory applied color finishes are required.

6. Combine details and color with orientation, massing, scale and architectural character to maintain base compatibility.

7. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.
D03.3.1. Climate-based Data and Life-Cycle Cost-Effective Passive and Natural Design Strategies:

- Climate dominated by mechanical cooling
- Climate dominated by mechanical heating
- Climate with similar mechanical cooling / heating needs
- Climate with minimal mechanical cooling / heating needs
- Climate with high humidity
- Climate with moderate humidity
- Climate with low humidity
- High Solar Insolation
- Moderate Solar Insolation
- Low Solar Insolation
- Soils with High Thermal Conductivity
- Soils with Average Thermal Conductivity
- Soils with Low Thermal Conductivity

Other: Consider the potential for flooding and corrosion.

Other:

Facility: Narrow buildings along E-W axis are preferred
Wall: Integral shading features and devices / interior masonry thermal mass walls (for cooling)
Doors: Recessed are preferred
Windows: Provide insulating glazing on north-facing windows / maximize shading for windows on south façades
Roof: High to medium albedo, moderate slope for all buildings except hangars / large industrial facilities
Structure: Do not expose ferrous metals. Provide factory finished non-ferrous metals or concrete
MEP: Ground-source following LCCA
Other: Internal thermal mass walls may be used for cooling following LCCA.

Other:
Note: Apply the below base-wide standards for Architectural Features (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

### D03.3.2. Natural Ventilation System

<table>
<thead>
<tr>
<th>Applicable</th>
<th>N/A</th>
<th>Number of base standards</th>
<th>3</th>
</tr>
</thead>
</table>

**Type:** **Style 1 Aluminum Windows**

- **Applies to:**
  - [ ] Group 1
  - [ ] Group 2
  - [ ] Group 3
  - [ ] Group 4
  - [ ] Other

- **Mfr:** Kawneer (or equivalent)

- **Color:** Dark Bronze (or clear anodized as approved by BCE)

- **Finish:** Anodized

- **Model #:** 2x4, slider or awning type

- **Other:** Provide thermally broken frames.

- **UFGS:** Section 08 41 13 Aluminum-Framed Entrances and Storefronts

**Type:** **Style 2 Steel Windows**

- **Applies to:**
  - [ ] Group 1
  - [ ] Group 2
  - [ ] Group 3
  - [ ] Group 4
  - [ ] Other

- **Mfr:** Steelcraft (or equivalent)

- **Color:** Dark Bronze

- **Finish:** Powder coated

- **Model #:** 2x4 frame, slider or double hung or awning type

- **Other:** Provide thermally broken frames

- **UFGS:** Section 08 11 13 Steel Doors and Frames
**Type:** Style 3 Aluminum-clad Wood Windows

**Applies to:**
- [ ] Group 1
- [ ] Group 2
- [ ] Group 3
- [ ] Group 4
- [ ] Other

**Mfr:** Marvin (or equivalent)

**Color:** Earth Tones

**Finish:** Factory

**Model #:** 4” Depth, Double-hung type

**Other:** N/A

**UFGS:** Section 08 52 00 Wood Windows

---

**D03.3.3. Thermal Mass**

- [ ] Applicable  [ ] N/A  Number of base standards 1

**Type:** Style 1 Interior Wall Material

**Applies to:**
- [ ] Group 1
- [ ] Group 2
- [ ] Group 3
- [ ] Group 4
- [ ] Other

**Mfr:** Custom, TBD

**Color:** Red brick blend

**Finish:** Light texture

**Model #:** Coursed unit masonry

**Other:** Brick is preferred. Concrete block may only be used in Group 3 when approved by the BCE.

**UFGS:** Section 04 20 00 Unit Masonry
D03.3.4. Thermal Shading

Type: **Style 1 Wall Devices**

- **Applicable**: Yes
- **Mfr.**: Kawneer (or equivalent) or custom
- **Color**: Dark bronze
- **Finish**: Factory, to match frames
- **Model #**: Louver
- **Other**: Shading devices may be attached to frames or structure

UFGS: Section 08 41 13 Aluminum-Framed Entrances and Storefronts

D03.3.5. Renewable Heating/Cooling

Type: **Style 1 Geothermal (Ground Source)**

- **Applicable**: Yes
- **Mfr.**: Climate Master
- **Color**: N/A
- **Finish**: N/A
- **Model #**: N/A
- **Other**: Vertical ground loop well field

UFGS: Section 23 81 47 Water-Loop and Ground-Loop Heat Pump Systems
D03.3.6. Solar Photovoltaic System

Applicable: ☑️

Number of base standards: 2

Image Tool 250 x 188

Type: **Ground-Mounted PV Panels**

**Applies to:**
- ☑️ Group 1
- ☑️ Group 2
- ☑️ Group 3
- ☑️ Group 4
- ☑️ Other

**Mfr:** TBD

**Color:** Factory

**Finish:** Matte

**Model #:** Flat plate collector, fixed or tracking

**Other:** Coordinate with local utility provider

**UFGS:** Section 48 14 00 Solar Photovoltaic Systems

---

Type: **Roof-Mounted PV Array**

**Applies to:**
- ☑️ Group 1
- ☑️ Group 2
- ☑️ Group 3
- ☑️ Group 4
- ☑️ Other

**Mfr:** TBD

**Color:** Factory

**Finish:** Matte

**Model #:** Flat plate collector

**Other:** Coordinate with local utility provider

**UFGS:** Section 48 14 00 Solar Photovoltaic Systems
D03.3.7. Solar Thermal System

- Type: Wall-Mounted or Roof-Mounted Panels
- Applies to: Group 1, Group 2, Group 3, Group 4, Other
- Mfr: TBD
- Color: Factory
- Finish: Matte
- Model #: Flat plate collector
- Other: N/A
- UFGS: Section 48 14 13 Solar Liquid Flat Plate and Evacuated Tube Collectors
D04. BUILDING ENTRANCES

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Building Entrances:

Insert 3 photos for each facility group.
D04.1. Primary Entrances

1. Emphasize the primary entrance in the overall building design with a projecting or recessed covering for weather protection following Installation Facilities Standards (IFS) for Facility Group designations.

2. Provide vestibules at entries in Groups 1, 2 and 3 unless used infrequently or serving unconditioned space following ASHRAE 90.1.

3. Fully integrate all elements including the design of handicap ramps in the overall design of the primary entrance in an organized, uncluttered appearance.

4. Install paved transitional spaces sized for the building function and occupancy.

5. Install appropriate lighting and site furniture following ATFP and IFS.

6. Protect entrances from direct sun and inclement weather.

7. Provide porte cochere or covered drop-offs when justified for lodging and medical facilities; do not use for prestige or architectural accents.

D04.2. Secondary Entrances

1. Provide vestibules at entries in Groups 1, 2 and 3 unless used infrequently or serving unconditioned space following ASHRAE 90.1; use of stair towers as vestibules for multi-story buildings is encouraged when building and / or energy codes are satisfied.

2. Reflect the character of the primary entrance to a lesser extent with a smaller scale.

3. Include a recess or projection for weather protection and shading.

4. Integrate service and egress doors and loading areas with the building design by matching the materials and detailing and reflect the overall quality of the facility.

5. Incorporate egress structures such as stair towers into the facility design.

6. Canopies may be used for service and loading areas; weather protection beyond weatherstripping is not required at doors used only for life safety egress.

7. Develop building massing and orientation to minimize the appearance of service and loading areas; physically and visually separate these from primary entrances.

8. Loading areas must be organized, orderly and have an uncluttered appearance.
D05. WALL SYSTEMS

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Doors and Windows:

Comply with AFCFS Recommended Materials:

Insert 3 photos for each facility group.
D05.1. Hierarchy of Materials

1. Group 1 facilities may have more refined detailing than Group 2 and Group 2 may have more definition than Group 3.

2. Group 1 facilities shall be brick with architectural precast accents. Color of brick may vary according to location. Refer to the Appendix for special requirements of Facility Districts.

3. Group 2 facilities shall be brick with architectural precast accents. Color of brick may vary according to location. Split faced block may be used also. Refer to the Appendix for special requirements of Facility Districts.

4. Group 3 facilities shall be split faced block with insulated metal panels and/or metal sheathing.

5. Group 4 shall be brick and siding.

6. Multi-story Group 2 facilities may include a transition in material, color or detailing to create a visual base. Generally, limit brick, split faced block, and EIFS to a single color on Group 2, 3 and 4 facilities.

7. Use high-performance building envelopes following UFC 1-200-02.

8. Use detailing not subject to excessive weathering. Provide wall accents consistently throughout the base.

9. Use integrally colored materials and factory-finished metals. Do not paint concrete block.

10. Translucent wall panels may be used in Facility Group 1 and recreational uses in Group 2 when protected from direct solar gain. Provide insulating panels and shading appropriate for the orientation and exposure.

11. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

D05.2. Layout, Organization and Durability

1. Organize wall components including doors, windows, accents, shading devices, control joints, etc., to provide an ordered, professional appearance.

2. Integrate shading devices into the overall composition of the wall.

3. Integrate fixed shading devices at all exterior glazing exposed to summer UV heat gain as a passive design measure to reduce energy use. Ensure adequate shading at west entrances. Deciduous trees may be used for shading.

4. Shading systems may be included as part of a manufacturer’s window system or may be custom systems integrated into the wall.

5. Provide appropriate transitions between dissimilar materials to mitigate effects of thermal expansion and galvanic action.

6. All joint sealants shall be slightly darker than adjacent surfaces.

7. Materials requiring regular maintenance are not permitted; do not use exposed structural steel or other materials that require painting.

8. Refer to C07.2.16. Screen Walls for materials and colors of freestanding walls.

9. Refer to D07. Roofs for downspouts.

D05.3. Equipment, Vents and Devices

1. Arrange all mechanical, electrical, fire alarm, lightning protection and other system components to create an orderly appearance that integrates with the wall system.

2. Do not expose conduits, cables, piping, lightning protection components, etc. on exterior walls; if unavoidable in renovations, finish these elements to match the adjacent wall surface.

3. Avoid visual clutter and where surface-mounted elements are required they shall match the wall color.
D05.4 Wall Systems Materials

**Facility Group 1** wall materials shall be as follows.

- **Primary:** Brick
- **Secondary:** Architectural precast
- **Accent:** Alternate coursing and relief

**Facility Group 2** wall materials shall be as follows.

- **Primary:** Brick
- **Secondary:** Architectural precast
- **Accent:** Optional: EIFS

**Facility Group 3** wall materials shall be as follows.

- **Primary:** Ribbed metal sheeting
- **Secondary:** Split Faced Block
- **Accent:** Optional: Brick

**Facility Group 4** wall materials shall be as follows.

- **Primary:** Fiber Cement Siding
- **Secondary:** Fiber Cement Siding, Trim Boards
- **Accent:** Brick Cladding

**Note:** Apply the below base-wide standards for Wall Systems (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

### D05.4.1. Flat Metal Panels

- **Applicable:** Yes
- **N/A:** No
- **Number of base standards:** 2

**Type:** Insulated Metal Panel System - Kynar Finish, Light

- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other

- **Mfr.:** Metl-Span

- **Model #:** CF Santa Fe Insulated Metal Wall System

- **Color:** Beige

- **Finish:** Kynar 500

- **Other:** Route and Return Dry Seal

- **UFGS:**
  - Section 07 42 63 Fabricated Wall Panel Assemblies: [http://www.wbdg.org/FFC/DOD/UFGS/UFGS 07 42 63.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 07 42 63.pdf)
Type: **Insulated Metal Panel System - Kynar Finish, Dark**

Applies to: [ ] Group 1 [ ] Group 2 [ ] Group 3 [ ] Group 4 [ ] Other

Mfr: Metl-Span

Model #: CF Santa Fe Insulated Metal Wall System

Color: Dark Bronze

Finish: Kynar 500

Other: Route and Return Dry Seal

UFGS: Section 07 42 13 Metal Wall Panels:
Section 07 42 63 Fabricated Wall Panel Assemblies:
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 07 42 63.pdf

---

**D05.4.2. Brick Veneer**

[ ] Applicable [ ] N/A Number of base standards 2

Type: **Modular Face Brick**

Applies to: [ ] Group 1 [ ] Group 2 [ ] Group 3 [ ] Group 4 [ ] Other

Mfr: Acme

Model #: Modular Face Brick, 2.3x4x8 nominal,

Color: Crimson, Blend: TUP003

Finish: Velour Texture

Other: Provide an integrally colored mortar to match brick

UFGS: Section 04 20 00 Unit Masonry:
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 04 20 00.pdf
**Type:** Modular Face Brick

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Acme

**Model #:** Modular Face Brick, 2.3x4x8 nominal

**Color:** Muted Red Blend with Flash

**Finish:** Velour Texture

**Other:** The mortar color is a natural gray or white.

**UFGS:** Section 04 20 00 Unit Masonry: [http://www.wbdg.org/FFC/DOD/UFGS/UFGS 04 20 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 04 20 00.pdf)

---

**D05.4.3. Architectural Precast**

- **Applicable**
- **N/A**
- Number of base standards 1

**Type:** Coursed precast

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Local, TBD

**Model #:** Smooth Casting

**Color:** White

**Finish:** Very Light texture

**Other:** N/A

**UFGS:** Section 03 45 00 Precast Architectural Concrete: [http://www.wbdg.org/FFC/DOD/UFGS/UFGS 03 45 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 03 45 00.pdf)
D05.4.4. Stucco Over Sheathing

Applicable

Type: 3-Coat Cementitious Stucco

Applies to: ☐ Group 1 ☐ Group 2 ☐ Group 3 ☐ Group 4 ☐ Other

Mfr: La Habra

Model #: Traditional 3-coat system

Color: Beige

Finish: Sand

Other: Accent color may be used

UFGS: Section 09 24 23 Cement Stucco:

D05.4.5. Curtain Wall

Applicable

D05.4.6. Cast-In-Place Concrete

Applicable

Type: Board-Formed or Sheet-Formed Bearing Walls

Applies to: ☐ Group 1 ☐ Group 2 ☐ Group 3 ☐ Group 4 ☐ Other

Mfr: Custom

Model #: Rough-sawn dimensional lumber or liner forming

Color: Exposed Aggregate

Finish: N/A

Other: Medium Texture (or media blasted)

UFGS: Section 03 33 00 Cast-In-Place Architectural Concrete:
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 03 33 00.pdf

D05.4.7. Tilt-Up Concrete

Applicable
### D05.4.8. Ribbed Metal Sheeting

**Applicable: 1 | N/A:**

**Number of base standards:** 1

**Type:** Lap Seam

<table>
<thead>
<tr>
<th>Applies to:</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Other</th>
</tr>
</thead>
</table>

**Mfr:** TBD

**Model #:** Lap Seam Panel

**Color:** Dark Bronze or Beige dependent upon location

**Finish:** Embossed Texture, factory finished

**Other:** 24 Gauge Steel

**UFGS:** Section 07 42 13 Metal Wall Panels:

### D05.4.9. EIFS

**Applicable: 1 | N/A:**

**Number of base standards:** 1

**Type:** Style 1

<table>
<thead>
<tr>
<th>Applies to:</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Other</th>
</tr>
</thead>
</table>

**Mfr:** TBD

**Model #:** TBD

**Color:** Light to medium beige

**Finish:** Medium texture

**Other:** Confirm class of system with the BCE

**UFGS:** Section 07 24 00 Exterior Insulation and Finish Systems:

### D05.4.10. GFRC

**Applicable: 0 | N/A:**

**Number of base standards:** 1

**Type:**

- **UFGS:** Section 07 42 13 Metal Wall Panels:
### Concrete Block

**Type:** Concrete Masonry Unit (CMU) Split Face

- **Applicable:** Yes
- **N/A:** No
- **Number of base standards:** 2

<table>
<thead>
<tr>
<th>Applies to</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mfr</td>
<td>Local TBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model #:</td>
<td>8x8x16 Nominal, face and corner units</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Medium or dark tan</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish:</td>
<td>Heavy Texture</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>N/A</td>
<td></td>
<td></td>
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</tbody>
</table>

**UFGS:** Section 04 20 00 Unit Masonry:
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 04 20 00.pdf

### Concrete Masonry Unit (CMU) Ground Face

<table>
<thead>
<tr>
<th>Applies to</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mfr</td>
<td>Local TBD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model #:</td>
<td>8x8x16 Nominal, face and corner units</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Medium or dark tan</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Finish:</td>
<td>Light Texture</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>N/A</td>
<td></td>
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</tbody>
</table>

**UFGS:** Section 04 20 00 Unit Masonry:
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 04 20 00.pdf
D05.4.12. Fiber Cement Siding

Type: **Style 1**

- **Applies to:**
  - [ ] Group 1
  - [ ] Group 2
  - [ ] Group 3
  - [x] Group 4
  - [ ] Other

- **Mfr:** James Hardie Building Products, Inc.

- **Model #:** Horizontal Lap Siding, Shingle Siding

- **Color:** Earth Tones

- **Finish:** Wood Texture

- **Other:** Hardie Plank, Hardie Shingle

- **UFGS:** SECTION 074646 Fiber Cement Siding: (Not Available on UFGS)

---

D05.4.13. Other

- **Aplicable**
- **N/A**
D06. DOORS AND WINDOWS

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Doors and Windows:

Comply with AFCFS Recommended Materials:

Insert 3 photos for each facility group.

Insert 3 photos for each facility group.

Insert 3 photos for each facility group.

Insert 3 photos for each facility group.
D06.1. Types

1. Clear anodized aluminum doors, windows and frames with thermal breaks are preferred for Facility Groups 1-3 because they show less wear and weathering than dark anodized finishes; match the color of the door and frame. For renovation and addition projects the color of new windows, doors and frames may match existing.

2. Aluminum clad wood windows are preferred for Facility Group 4.

3. Standard-sized hinged doors are preferred. Use sliding, folding, overhead, sectional and other door configurations only to support mission operations.

4. Automatic doors are allowed only where functionally necessary. Automatic doors shall be push button operated with manual override.

5. Limit hollow metal doors and frames to security doors, utility rooms and mechanical rooms in Groups 1 and 2 and to any application in Group 3 facilities. These may be powder coated dark bronze or silver / gray.

6. Utility and emergency egress doors shall match the wall color.

7. Passive thermal comfort methods of ventilation are encouraged where life cycle cost justified.

8. Windows must meet force protection requirements.

9. Adjacent joint sealants should be slightly darker than the frame color.

10. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

D06.2. Layout and Geometry

1. Visually and functionally compose openings in walls for the climate-specific exposure.

2. Consistently use opening type, size, placement, mullion pattern, and color to reinforce the overall architectural design.

3. Openings shall augment interior lighting and space conditioning needs.

4. Protect against vandalism and intrusion and coordinate sound ratings.

D06.3. Glazing and Shading

1. Tinted, energy-efficient, low-e, double-pane glazing is encouraged; provide triple-pane glazing in extreme environments.

2. Glazing color shall follow Installation Facilities Standards (IFS).

3. Translucent wall panels may be integrated into wall systems.

4. Do not use mirrored glazing.

5. Fully integrate applicable shading designs for overhangs, louvers, light shelves and grilles.

6. Where appropriate, install window screens on all operable windows to take advantage of natural ventilation.

D06.4. Hardware

1. Provide hardware appropriate for the Facility Group while considering activity and frequency of use and local climate; hardware may be of higher visual quality for Facility Group 1.

2. Ensure hardware will perform throughout the facility’s life span without showing extreme wear.

3. Select finishes that will not degrade by intensity of operation or exposure to the elements.
4. Use consistent finishes and color on window and door systems throughout a facility. For renovation projects the color of new hardware may match the existing hardware.

5. Design building systems to eliminate the need for security screens whenever possible.

6. Refer to Little Rock Air Force Base standard hardware specification Section 08 71 00 Door Hardware for more information. See Appendix G.

**D06.5. Doors and Windows Materials**

**Note:** Apply the below base-wide standards for Doors and Windows (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

**D06.5.1. Anodized Aluminum**

- **Applicable**
- **N/A**
- Number of base standards 1

| Type: Anodized Aluminum Doors, Windows and Frames |
| Applies to: | Group 1 | Group 2 | Group 3 | Group 4 | Other |
| Mfr: | Kawneer (or equivalent) |
| Color: | Clear anodized or Dark Bronze when approved by the BCE |
| Finish: | Clear anodized aluminum |
| Model #: | 2x4, thermally broken framing |
| Other: | Group 1 may use larger openings with larger framing sections |

D06.5.2. Hollow Metal

Type: Hollow Metal Doors, Windows and Frames

- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other

- **Mfr:** Steelcraft
- **Color:** Medium Bronze
- **Finish:** Powder Coated, Satin
- **Model #:** 2x4, thermally broken framing
- **Other:** Group 1 use only for secondary entrances or emergency egress

**UFGS:** Section 08 11 13 Steel Doors and Frames:

D06.5.3. Aluminum-clad Wood

Type: Aluminum-clad Residential

- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other

- **Mfr:** Marvin
- **Color:** White or light Earth tones
- **Finish:** Powder coated, satin
- **Model #:** Aluminum-clad wood doors and windows
- **Other:** Double hung windows

**UFGS:** Section 08 14 00 Wood Doors
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 14 00.pdf

D06.5.4. Other
D07. ROOF SYSTEMS

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Roof Systems:

Comply with AFCFS Recommended Materials:

Insert 3 photos for each facility group.

Image Tool 250 x 188

Group 1

Group 2

Group 3

Group 4

Recommended Image:
Facility showing roof
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Recommended Image:
Roof features
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Recommended Image:
Roof Detail
Size image to:
250 pixels width x 188 pixels height
Click here to insert image
D07.1. Roof Type and Form

1. Use proven, cost-effective roof systems with high durability, weather resistance, and low maintenance that are compatible with Installation Facilities Standards (IFS) and requirements for the designated Facility Group.

2. Generally match the roof type and form of existing adjacent facilities in new construction.

3. Group 1 and 2 buildings shall use sloped standing seam metal roofs. Minimal-slope roofs may be used as approved on a case basis.

4. Provide screens for roof-mounted appendages and equipment of the same materials, which are used predominantly in the building’s roof systems.

5. Roof translucent panels are permitted only for Group 1 and Group 2, and shall match materials and type.

6. Group 2 and 3 facilities under 5,000 sf and narrow in plan geometry, may use low-sloped shed, gabled or hipped standing seam metal roofs. Larger facilities may use sloped-roof features in conjunction with predominantly minimal-sloped “flat” membrane roofs.

7. Group 4 facilities shall have gabled or hipped composite shingle roofs.

8. Roof eaves shall extend beyond the exterior wall for roof drainage and shading. Provide overhangs for shading in response to local climatic conditions; these should be sized and proportioned to the height of the facility and to the window openings being shaded.

9. South-facing eaves shall coordinate with adjacent wall-mounted shading devices.

10. The color, shape and slope of the eave and soffit shall be compatible with adjacent facilities.

11. Keep roofs uncluttered and minimize penetrations.

12. Organize massive roofs into coordinated smaller components consistent with adjacent facilities; avoid random, arbitrary changes.

13. Increase the insulation value of existing roofing systems during renovations if supported by life-cycle cost and structural analysis.

14. Roofs shall be maintained for the life of the system and replaced in accordance with UFC 3-110-04 and AFI 32-1051. A warranty is required on all new roofs.

15. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

16. Refer to Little Rock Air Force Base 19th CES CIVIL/STRUCTURAL DESIGN CRITERIA AND EXPECTATIONS for more information. See Appendix G.

D07.2. Roof Slope

1. Group 1 and 2 buildings shall use sloped roofs, min. 4:12.

2. Low-sloped roofs are allowed for larger structures or to match existing conditions on renovation projects. Minimal-sloped roofs may also be used for Group 3 facilities in high-visibility areas.

3. Group 4 facilities shall use 4:12 to 6:12 roof slopes.

4. Ensure adequate drainage and connect to the subsurface rain collection system where available.

5. Provide roof slopes to accommodate solar photovoltaic, solar thermal, passive systems and daylighting when applicable following UFC 1-200-02.

6. Provide underlayments as required for the roofing type as directed by the UFC.
D07.3. Parapets and Copings
1. Extend wall materials vertically above the roofline and provide metal copings to match the wall. Ensure copings are properly flashed and detailed to avoid roof leaks.

D07.4. Color and Reflectivity
1. Sloped roofs in Groups 1 and 2 and smaller facilities in Group 3 shall be Medium Bronze or Light Beige "Almond" dependent upon location to match adjacent facilities, meet energy performance standards of UFC 1-200-02 and follow requirements of this IFS.

2. All minimal-slope membrane roofs shall use only use high-albedo, high-reflectivity color to help decrease the temperature around the buildings and minimize damage to human and wildlife habitat.

3. Sloped roofs in Group 4 shall be earth tones.

4. Comply with UFC 3-110-03 and ASHRAE 90.1 for Solar Reflectance Index (SRI) and thermal requirements.

5. All roof flashing shall match the color of the predominant background material.

D07.5. Gutters, Downspouts, Scuppers, Drains
1. All sloped roofs shall use gutters and downspouts. Gutters shall be outside the fascia.

2. Internal roof drainage systems are not permitted in new construction. Minimal-sloped roofs shall be sloped to drain to the building perimeter through scuppers into downspouts.

3. All gutters and fascias shall match the roof color, unless directed otherwise to be used as an accent. Coordinate color selection with LRAFB Architect.

4. Size the roof drainage system per IBC and SMACNA for the region.

5. Use scuppers as required in parapet walls. Arrange scuppers in an orderly manner consistent with other elements of the wall system.

6. When open scuppers are connected to downspouts, provide transitions consistent with adjacent facilities.

7. Integrate downspouts with the architectural details of the wall system and arrange in an orderly, non-prominent appearance. Generally blend downspouts with the color of the wall, unless directed otherwise. Coordinate color selection with LRAFB Architect.

8. Fabricate downspouts from non-corrosive materials such as aluminum or zinc-coated steel. Provide powder-coated finishes in medium bronze or as approved by the LRAFB Architect.

9. All downspouts shall be solid.

10. Provide angled transitional pieces for downspouts to fit closely against the wall for their entire length.

11. Coordinate locations of downspouts to conceal control joints in masonry walls when possible.

12. Place downspouts away from building entries. Water discharged should not run across sidewalks.

13. All downspouts shall have cast iron down spot boots.

14. All downspouts shall have concrete splash blocks unless these are connected to an underground drain.

D07.6. Roof Vents and Elements
1. Minimize and consolidate roof penetrations into a single, inconspicuous point whenever possible.

2. On sloped roofs clad pipe penetrations to match the roofing material.
3. Avoid the use of rooftop mechanical equipment; however, for renovations and unavoidable configurations, ensure units are screened.

4. Provide access points and service routes to equipment that protect the roof.

5. Screen all large vents.

6. Ensure attic spaces are properly vented at ridges and soffits.

7. Match roof color for all exposed equipment and vents.

8. Avoid roof-mounted antenna systems.

9. Arrange Lightning Protection Systems (LPS) components in an ordered, uncluttered and inconspicuous appearance; integrate components into the organization of the roof and wall systems.

10. Ensure that LPS roof mounting systems are approved by the roofing manufacturer.

11. Additions to a roof shall not interfere with LPS or other rooftop systems that may be required.

12. Permanent fall protection shall be included with any addition to a roof with a slope above 3:12 per UFC 3-110-03.

D07.7. Clerestories and Skylights

1. Clerestories and skylights are permitted in Group 1 and Group 2 facilities. These are allowed in Group 3 facilities only when serving passive systems and are justifiable by life-cycle analysis.

2. Clerestories are preferred to skylights to avoid roof penetrations. Skylights, when permitted, must be simple in shape and integrated with the roof system to eliminate leakage.

3. Design clerestories and skylights using the same principles for seasonal shading that are required for walls and roof overhangs.

4. Translucent panel systems are preferred in clerestory applications due to lack of window cleaning.

5. Clerestories and skylights must comply with UFC 4-10-01.

D07.8. Vegetated Roof

1. Not applicable.

D07.9. Roof Systems Materials

Note: Apply the below base-wide standards for Roof Systems (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.
## D07.9.1. Standing Seam Metal

### Style 1 - Light

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Berridge

**Color:** Light Beige "Almond"

**Finish:** Matte

**Model #:** Tee-Panel

**Other:** Shed, gabled or hipped standing seam metal

**UFGS:** Section 07 61 14 Steel Standing Seam Roofing


### Style 2 - Dark

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Berridge

**Color:** Medium Bronze

**Finish:** Matte

**Model #:** Tee-Panel

**Other:** Shed, gabled or hipped standing seam metal

**UFGS:** Section 07 61 14 Steel Standing Seam Roofing

### D07.9.2. Membrane Single-ply

- **Type:** Style 1
- **Applies to:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr.:** Carlisle Systems
- **Color:** Off-white
- **Finish:** Smooth
- **Model #:** TPO single-ply, “flat” minimal slope
- **Other:** N/A

**UFGS:**
- Section 07 53 23 Ethylene-Propylene-Diene-Monomer Roofing
  - [Link](http://www.wbdg.org/FFC/DOD/UFGS/UFGS_07_53_23.pdf)
- Section 07 54 50 TPO Thermoplastic Single-Ply Roofing
  - (Not Available on UFGS)

### D07.9.3. Built-up Multi-ply

- **Applicable**
- **N/A**

### D07.9.4. Concrete Tile

- **Applicable**
- **N/A**

### D07.9.5. Clay Tile

- **Applicable**
- **N/A**

### D07.9.6. Slate Shingles

- **Applicable**
- **N/A**

### D07.9.7. Vegetated System

- **Applicable**
- **N/A**
### D07.9.8. Ribbed Metal Sheeting

**Applicable:** Yes  **N/A:** No  **Number of base standards:** 1

**Type:** **Style 1**

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Berridge

**Color:** Light Beige

**Finish:** Factory, matte

**Model #:** High Seam Tee-Panel

**Other:** Mechanically seamed system, 24 gauge steel, Width: 16" Batten height: 1-3/4"

**UFGS:** Section 07 41 13.19 Batten-Seam Metal Roof Panels (Not Available on UFGS)

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### D07.9.9. Composite Shingles

**Applicable:** Yes  **N/A:** No  **Number of base standards:** 1

**Type:** **Style 1**

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Tamko

**Color:** Earth Tones

**Finish:** Factory

**Model #:** Heritage

**Other:** Gabled or hipped with transverse gable or hipped features

**UFGS:** Section 07 31 13 Glass-fiber-reinforced Asphalt Shingles


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### D07.9.10. Other

**Applicable:** No  **N/A:** Yes
D08. STRUCTURAL SYSTEMS

Comply with AF Corporate Standards for Facilities Exteriors:
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Structural Systems:

Comply with AFCFS Recommended Materials:

Insert 3 photos for each facility group.

[Images of facilities and structural features with image sizes specified]
D08.1. Systems and Layouts

1. Pre-engineered structural steel framing may be used for Groups 1, 2 and 3 facilities; Installation-appropriate thermal envelopes, materials and detailing are required.

2. Select economical structural systems that integrate roof and wall systems.

3. Narrow buildings 60’ or less in width with column-free interiors are preferred for office, administrative and personnel spaces; when interior columns are required optimize the structural grid layout for open-plan arrangements.

4. Fully coordinate structural grids with exterior window systems to align columns with window frames or wall systems.

5. When structure is exposed provide an organized appearance and coordinate with mechanical, electrical, plumbing, fire protection, information technology, and communications systems.

6. Limit the use of specialty systems (such as space frames, vaults or domes) and of structure as a visual feature.

7. Cost-effectively design interior bearing walls as thermal mass.

8. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

9. Refer to Little Rock Air Force Base 19th CES CIVIL/STRUCTURAL DESIGN CRITERIA AND EXPECTATIONS for more information. See Appendix G.

D08.2. Structural Systems Materials

Note: Apply the below base-wide standards for Structural Systems (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

D08.2.1. Concrete

Applicable: Yes  N/A: No  Number of base standards: 1

Type: Cast-In-Place

Applies to:  Group 1  Group 2  Group 3  Group 4  Other

Mfr: Custom

Color: Natural gray

Finish: Light texture

Model #: Post and beam and/or waffle slab

Other: Coordinate with mechanical for chilled beam technologies

UFGS: Section 03 30 53 Miscellaneous Cast-In-Place Concrete
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 03 30 53.pdf
Section 03 33 00 Cast-In-Place Architectural Concrete
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 03 33 00.pdf
Section 03 47 13 Tilt-Up Concrete
D08.2.2. Insulated Concrete Forming (ICF)

☐ Applicable  ☑ N/A

D08.2.3. Steel

☐ Applicable  ☑ N/A  Number of base standards 1

Type: Rigid Framing

Applies to: [ ] Group 1  [ ] Group 2  [ ] Group 3  [ ] Group 4  [ ] Other

Mfr: US Steel

Color: Shop primed

Finish: Matte

Model #: Structural steel shapes

Other: N/A

UFGS: Section 05 12 00 Structural Steel
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 05 12 00.pdf

D08.2.4. Pre-Engineered Steel

☐ Applicable  ☑ N/A  Number of base standards 1

Type: Moment Frame

Applies to: [ ] Group 1  [ ] Group 2  [ ] Group 3  [ ] Group 4  [ ] Other

Mfr: Behlen Building Systems

Color: Factory primed

Finish: Matte

Model #: Moment Frame

Other: Draped insulation may be used behind wall finish system; Behlen standing seam roof system may be used for Group 3

UFGS: Section 13 12 00 Steel Building Systems
(Not Available on UFGS)
Section 13 34 19 Metal Building Systems
D08.2.5. Masonry
☐ Applicable  ☑ N/A

D08.2.6. Heavy Timber
☐ Applicable  ☑ N/A

D08.2.7. Light-gauge Steel
☑ Applicable  ☑ N/A  Number of base standards 1

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<tr>
<th>Type:</th>
<th>Steel Framing</th>
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<td>Applies to:</td>
<td>Group 1</td>
</tr>
<tr>
<td>Mfr:</td>
<td>Steelrite</td>
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<tr>
<td>Color:</td>
<td>Factory</td>
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<td>Finish:</td>
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<td>Structural framing shapes</td>
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<td>Other:</td>
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UFGS: Section 05 45 00 Light Gauge Steel Framing System (Not Available on UFGS)

D08.2.8. Lumber Framing
☐ Applicable  ☑ N/A

D08.2.9. Other
☐ Applicable  ☑ N/A
D09. MECHANICAL, ELECTRICAL AND PLUMBING

Comply with AF Corporate Standards for Facilities Exteriors: 
http://afcfs.wbdg.org/facilities-exteriors/index.html

Comply with AF Corporate Standards for Mechanical, Electrical and Plumbing: 

Insert 3 photos for each facility group.

Group 1

Group 2

Group 3

Group 4
D09.1. Passive and Active Systems

1. Fully integrate passive heating and cooling systems into facility designs whenever practical for the local climate prior to the design of active mechanical systems.

2. Provide optimized passive and active systems; design active mechanical systems to supplement thermal mass walls and floors.

3. Develop renewable-energy systems including geo-exchange (ground source heat pumps) when life cycle cost effective.

4. Performance display screens, which report energy performance and utility savings, are encouraged; when provided locate these in building lobbies or common areas.

5. Solar domestic hot water systems are required when life-cycle cost effective for the climate.

6. Integrate shading into building exteriors to reduce solar heat gain during hot seasons.

D09.2. Functionality and Efficiency

1. Fully coordinate mechanical, electrical, plumbing (MEP) and fire protection systems with each other and with the building structure, enclosure, thermal envelope and interior design.

2. Ensure direct exterior access is provided (for CE) to main mechanical and electrical rooms.

3. Screen exterior equipment from primary views (landscape, building masses, screen walls) and comply with ATFP requirements.

4. Keep equipment away from main building entrances; locate service area/yard on least visible side of a building.

5. Coordinate the location of all exterior meters, equipment and devices to provide convenient access and an overall coordinated and orderly appearance.

6. Design emergency generator systems integrally with all other building systems and avoid incompatible building additions; locate generators near service areas and ensure they are not visible from primary entrances.

7. When structure is exposed, such as a finished ceiling, fully integrate MEP and fire protection systems to provide an organized, uncluttered appearance.

8. Conceal ducts, piping, conduits, devices, etc., when permanent walls, suspended ceilings or raised floors are provided; locate sprinkler heads in orderly configuration.

9. Limit interior wall-mounted equipment in occupied personnel spaces; avoid surface-mounted conduit and pipes.

10. Provide efficient utility rooms with layouts to facilitate system performance and maintenance; provide convenient access to controls, clearly label systems and include operating and maintenance instructions.

11. Separate mechanical, electrical, and communications rooms.

12. Integrate recessed and wall-mounted fixtures such as fire standpipe cabinets and drinking fountains within permanent walls.

13. Maintenance slabs located next to buildings are to be compatible with grounds maintenance. If the slab does not allow room for a riding mower between the maintenance slab and building (less than 6’), or has surface mounted conduits and lines that connect it to the facility, extend the slab up to the edge of the facility.

14. Refer to Little Rock Air Force Base 19th Civil Engineering Squadron Mechanical Engineering Design Criteria and Expectations for facility requirements. See Appendix G.
15. Refer to Little Rock Air Force Base Electrical Design Standards. See Appendix G.
E. FACILITIES INTERIORS

Comply with Air Force Corporate Standards for Facilities Interiors:
http://afcs.wbdg.org/facilities-interiors/index.html

Insert 3 photos for each facility group.

Image Tool 250 x 188

Group 1

Recommended Image:
Typical facility interior
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Recommended Image:
Interior features
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Recommended Image:
Interior detail
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Group 2

Recommended Image:
Typical facility interior
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Recommended Image:
Interior features
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Recommended Image:
Interior detail
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Group 3

Recommended Image:
Typical facility interior
Size image to:
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Recommended Image:
Interior features
Size image to:
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Recommended Image:
Interior detail
Size image to:
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Click here to insert image

Group 4

Recommended Image:
Typical facility interior
Size image to:
250 pixels width x 188 pixels height
Click here to insert image

Recommended Image:
Interior features
Size image to:
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Click here to insert image

Recommended Image:
Interior detail
Size image to:
250 pixels width x 188 pixels height
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E01. Building Configurations
Comply with Air Force Corporate Standards for Building Configurations:

1. Provide open-plan configurations for office, administrative, operational and related activities and spaces for maximum flexibility. Use a “core and shell” approach in which all building systems, infrastructure and permanent interior partitions anticipate two or more uses (operations) during a facility’s life span.

2. Create flexible interior configurations using Furniture, Fixtures & Equipment (FF&E) and limit private offices and private rooms. Refer to AFMAN 32-1084 for space requirements. To the greatest extent, limit permanent partitions to core areas such as toilet rooms, stairs, mechanical and utility rooms.

3. Use more durable long-lasting finishes in core areas for walls, ceilings, floor coverings and built-in casework. Coordinate interior FF&E layouts with structural grids during space planning.

4. Provide high-performance building configurations following UFC 1-200-02. Ensure passive design strategies are cost effectively incorporated before active mechanical systems are designed.

5. Comply with UFC 1-200-01, general building requirements. UFC 1-200-01 provides applicability of model building codes and government unique criteria for typical design disciplines and building systems, as well as for accessibility, antiterrorism, security, high performance and sustainability requirements, and safety.


7. Comply with AFCFS for supporting mission requirements, addressing human comfort and well being, and creating highly flexible interiors while satisfying metrics for high performance and sustainable buildings.

8. Provide a level of quality for interior features, materials and finishes that is appropriate for the Facility Group number. Group 1 may receive higher quality than Groups 2 thru 4. Refer to Facility Hierarchy.

9. Through open-plan configurations, preserve all passive and natural design strategies and fully integrate facility interiors with overall building systems.

10. Professional interior designers, or architects with significant interior design experience, must accomplish the design and review of applicable new construction, renovations and maintenance projects.

11. Consult with the State Historic Preservation Officer (SHPO) and base-level Historic Preservation offices regarding proposed changes to properties listed on or eligible for listing on the National Register of Historic Places. Follow requirements of The National Historic Preservation Act and Secretary of the Interior Standards for the Treatment of Historic Properties.

12. Maintain architectural compatibility following AFCFS and this Installation Facilities Standards (IFS) document to create continuity while avoiding monotony.

E01.1. Layout and Common Areas
Comply with Air Force Corporate Standards for Layout and Common Areas:

1. Create open-plan interior environments to accommodate changes.

2. Limit interior partitions, private offices and rooms; use furniture or modular systems to provide privacy and acoustic control.

3. When partitions are functionally justified such as for conference rooms, use systems furniture and moveable (demountable) floor-to-ceiling wall systems for acoustical or visual privacy.

4. Proportion lobbies and common spaces based on type of function, activity and facility group.

5. Allow no direct sight lines into restrooms.
6. Situate utility and core areas to minimize impact on daylighting and to maximize use as thermal buffers.

7. Ensure electrical, lighting and communications system can be adaptable to configuration changes.

8. Avoid power poles to the maximum extent; when poles are necessary minimize the number and coordinate locations with furniture placement and other elements.

9. Avoid sloping floors to maintain flexibility and eliminate future structural changes.

10. Special consideration may apply to Sensitive Compartmented Information Facilities (SCIFs).

**E01.1.1. Interior Design Process**

1. Comply with UFC 3-120-10 for the Comprehensive Interior Design (CID,) which includes both Structural Interior Design (SID) and Furniture, Fixtures & Equipment (FF&E) design services.

2. Use a collaborative, integrated planning and design team, composed of user, government support staff, and appropriate professionals. Integrate architectural features using simple detailing to create a professional appearance; avoid extravagant or excessive detailing.

3. Ensure interior designs satisfy the functional requirements within the context of flexibility, sustainability and the building’s energy performance.

4. Base space planning on square foot allocations from AFM 32-1084. Identify special requirements if any, such as privacy separation, VIP areas, gathering spaces and storage. Note: The occupant’s rank and position will influence the square footage and selection of materials.

5. Provide clear circulation and pathway finding for both horizontal and vertical directions that accommodate the number of personnel in the facility.

6. Maximize efficiencies in the space plan for functional relationships and adjacencies for all facility users. Efficiently create and situate rooms and support rooms such as conference / meeting rooms and break rooms.

7. Provide interior design building-related illustrations, drawings, schedules, materials selections, specifications and cost estimates as listed in UFC 3-120-10. Refer to Furnishings in this IFS also.

8. SID Format shall follow HQ AFCEC standards.

9. Base the FF&E package on the furniture footprint developed in the SID. Identify all new or existing equipment needed and its users within each facility or each area of the facility. Provide specific information on: equipment sizes, electrical requirements, ventilation requirements, weight (if heavy), quantity, and security level if required. Presume all administrative spaces have computers and supporting equipment.

**E01.1.2. Codes and Regulations**

1. Refer to UFC 1-200-01 for modifications to the International Building Code (IBC) to determine applicable sections of the IBC. Both the IBC Chapter 3 and UFC 3-600-01 govern “Use and Occupancy Classification” for example.

2. Fire code requirements shall be as defined in the International Building Code (IBC) and must be used where dictated by UFC 1-200-01 DoD Building Code (General Building Requirements) except where noted in UFC 3-600-01 (Fire Protection Engineering For Facilities).

3. National Fire Protection Association (NFPA) 101 must be utilized to determine the occupancy classification as it relates to fire/smoke resistance rating of interior non-load bearing partitions (other than occupancy separation), means of egress, interior finish, features of fire protection (including vertical openings) and associated requirements.
E01.2. Quality and Comfort

Comply with Air Force Corporate Standards for Quality and Comfort:

1. Include durability in the life-cycle cost analysis for best-value material selections with long life expectancies that do not show excessive wearing.

2. Select long-lasting materials and finishes for permanent core areas such as lobbies, restrooms and stairs.

3. Select low-maintenance materials and products that reduce ongoing servicing and repair and that are easy to clean.

4. Relate the visual quality of finishes to the Facility Group number.

5. Building and interior configurations should address both operations and climatic responses.

6. Convey a professional image; avoid trendy patterns and textures.

7. Use materials and finishes that provide a healthy indoor environment.

8. Orient interior spaces toward views while maintaining cost-effective building performance and efficiency.


10. Comply with Federal Government policy regarding protection and enhancement of the cultural environment.

E02. Floors

Comply with Air Force Corporate Standards for Floors:
http://afcs.wbdg.org/facilities-interiors/floors/index.html

E02.1. Floor Materials

Facility Group 1 floor materials shall be as follows.

Primary: Prepared Slabs (Ground, Polished)
Secondary: Ceramic tile
Tertiary: Carpet, Rubber Stair Treads

Facility Group 2 floor materials shall be as follows.

Primary: Prepared Slabs (Ground, Polished)
Secondary: Ceramic tile
Tertiary: Carpet, Rubber Stair Treads, Ceramic tile

Facility Group 3 floor materials shall be as follows.

Primary: Prepared Slabs (Ground)
Secondary: Prepared Slabs (Sealer)
Tertiary: Carpet, Rubber Stair Treads, Ceramic tile

Facility Group 4 floor materials shall be as follows.

Primary: Carpet
Secondary: Ceramic tile
Tertiary: N/A

1. Natural stone and terrazzo flooring may be used in high traffic areas of Group 1 as approved on a case basis.

2. Resilient and rapidly renewable flooring may be used in low traffic areas in Group 1, 2 and 4.

3. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.
Note: Apply the below base-wide standards for Floors (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

E02.1.1. Prepared Slabs

Type: **Style 1, Ground and Polished**

- Applies to: [ ] Group 1 [ ] Group 2 [ ] Group 3 [ ] Group 4 [ ] Other
- Mfr: Local (TBD)
- Color: Natural gray cement, light to dark beige aggregates
- Finish: Fine polished texture
- Model #: Medium to small aggregate
- Other: N/A
- UFGS: Section 03 35 45 Polished Concrete Finishing (Not Available on UFGS)

Type: **Style 2, Polished**

- Applies to: [ ] Group 1 [ ] Group 2 [ ] Group 3 [ ] Group 4 [ ] Other
- Mfr: Local (TBD)
- Color: Natural gray cement, light to dark beige aggregates
- Finish: Medium polished texture, slip resistant
- Model #: Medium to small aggregate
- Other: N/A
- UFGS: Section 03 35 45 Polished Concrete Finishing (Not Available on UFGS)

E02.1.2. Natural Stone and Terrazzo

- Applicable [ ] N/A
E02.1.3. Quarry Tile

Type: Style 1

Aplies to: Group 1 Group 2 Group 3 Group 4 Other

Mfr: Daltile

Color: Earth tones

Finish: Matte, slip resistant

Model #: N/A

Other: Use in commercial kitchen flooring.

UFGS: Section 09 30 10 Ceramic, Quarry, and Glass Tiling

E02.1.4. Ceramic Tile

Type: Style 1 Porcelain

Aplies to: Group 1 Group 2 Group 3 Group 4 Other

Mfr: Daltile

Color: Earth tones

Finish: Matte, slip resistant

Model #: Porcelain tile

Other: Use in high traffic areas. Epoxy grout is recommended.

UFGS: Section 09 30 10 Ceramic, Quarry, and Glass Tiling
**Type:** Style 2 Ceramic

**Applies to:** Group 1, Group 2, Group 3, Group 4

**Mfr:** Daltile

**Color:** Earth tones

**Finish:** Matte, slip resistant

**Model #:** Ceramic tile

**Other:** Use in low traffic area toilet rooms.

**UFGS:** Section 09 30 10 Ceramic, Quarry, and Glass Tiling

---

**E02.1.5. Resilient Floor**

**Type:** Style 1 Stair Treads

**Applies to:** Group 1, Group 2, Group 3

**Mfr:** Roppe

**Color:** Neutral tones

**Finish:** Factory

**Model #:** Raised design rubber tread

**Other:** Stair treads material

**UFGS:** Section 09 65 00 Resilient Flooring
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 65 00.pdf
E02.1.6. Carpet

Applicable

Type: **Style 1**

- Applies to:  Group 1  Group 2  Group 3  Group 4  Other

- Mfr: Mohawk Group

- Color: Neutral multi-colored tones/patterned/solid

- Finish: Yarn: Nylon 6 or 6.6/cut pile or loop pile

- Model #: Broadloom, 6’ wide rolled, carpet tiles, entry walk-off carpet

- Other: All carpet shall be purchased through the USAF Carpet Program. All areas with carpeting shall also have 4-inch-high seamed edge carpeted wall base from matching roll stock.

UFGS: UFGS 09 68 00 Carpeting

http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 68 00.pdf

Type: **Style 2**

- Applies to:  Group 1  Group 2  Group 3  Group 4  Other

- Mfr: Mohawk Group

- Color: Earth tones

- Finish: Factory

- Model #: Broadloom, residential loop, “Smartstrand”

- Other: All carpet shall be purchased through the USAF Carpet Program

UFGS: UFGS 09 68 00 Carpeting

http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 68 00.pdf

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**E02.1.7. Rapidly-Renewable Products**

- Applicable

**E02.1.8. Other**

- Applicable
E03. Walls
Comply with Air Force Corporate Standards for Walls:
http://afcfs.wbdg.org/facilities-interiors/walls/index.html

E03.1. Wall Materials

**Facility Group 1** wall materials shall be as follows.

- **Primary:** Brick (or other as approved by the BCE)
- **Secondary:** Gypsum board (painted)
- **Tertiary:** Ceramic tile (restrooms)

**Facility Group 2** wall materials shall be as follows.

- **Primary:** Brick
- **Secondary:** Gypsum board (painted)
- **Tertiary:** Ceramic tile (restrooms)

**Facility Group 3** wall materials shall be as follows.

- **Primary:** Ground face block, sealed (do not paint)
- **Secondary:** Gypsum board (painted)
- **Tertiary:** Ceramic tile (restrooms)

**Facility Group 4** wall materials shall be as follows.

- **Primary:** Gypsum board (painted)
- **Secondary:** N/A
- **Tertiary:** Ceramic tile (restrooms)

1. Follow UFC 3-450-01 (Vibration and Noise Control) for acoustic design issues including speech privacy, sound isolation or sound masking.

2. Select and apply paint with sheens (gloss levels) appropriate for the application following UFGS Section 09 90 00 Paints and Coatings.

3. Provide ceramic tile on concrete board for wet walls of all kitchens, toilet rooms, locker rooms, etc., in all facility groups.

4. Neutral ground-face integrally colored block with a clear sealer may be used in Group 3. Do not paint block.

5. Provide rubber base on drywall partitions in Groups 1, 2, and 3.

6. Hardwood base may only be used in Group 1 as approved on a case basis.

7. Hardwood chair rails / bumper rails may only be used in high-use areas of Groups 1 and 2 as approved on a case basis.; aqueous clear finishes are preferred to reduce maintenance; plastic chair rails are permitted only in medical applications.

8. Decorative moldings may be used only in Group 1 when approved on a case basis.

9. Corner guards are required in all public areas of Groups 1 and 2; stainless steel corners guards with a brushed finish may be judiciously used in Group 3.

10. Group 4 may use painted composite wood base.

11. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.
Note: Apply the below base-wide standards for Walls (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

E03.1.1. Concrete

☐ Applicable  ☐ N/A

E03.1.2. Masonry

☐ Applicable  ☐ N/A  Number of base standards 1  

Type: Modular Face Brick

Applies to: ☐ Group 1  ☐ Group 2  ☐ Group 3  ☐ Group 4  ☐ Other

Mfr: Local (TBD)

Color: Red blend

Finish: Light texture

Model #: Coursed unit masonry

Other: Brick is preferred. Ground face CMU may only be used in Group 3 when approved by the BCE. Do not paint CMU.

UFGS: Section 03 33 00 Cast-In-Place Architectural Concrete
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 03 33 00.pdf
E03.1.3. Ceramic Tile

- **Applicable**: Yes
- **N/A**: No
- **Number of base standards**: 1

**Type**: Style 1

- **Applies to**:
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other

- **Mfr**: Daltile
- **Color**: Earth tones
- **Finish**: Gloss, Semi-gloss
- **Model #**: Ceramic wall tile
- **Other**: Located on all walls in restrooms

**UFGS**: Section 09 30 10 Ceramic, Quarry, and Glass Tiling

---

E03.1.4. Gypsum Board

- **Applicable**: Yes
- **N/A**: No
- **Number of base standards**: 1

**Type**: Style 1

- **Applies to**:
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other

- **Mfr**: US Gypsum
- **Color**: Solid Earth tone colors
- **Finish**: Paint (Sheen per UFGS)
- **Model #**: Tapered edge
- **Other**: Provide textured finish

**UFGS**: Section 09 29 00 Gypsum Board
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 29 00.pdf
Section 09 90 00 Paints and Coatings
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 90 00.pdf

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E03.1.5. Metal Panels

- **Applicable**: No
- **N/A**: Yes
E03.1.6. Wood Paneling
☐ Applicable  ☒ N/A

E03.1.7. Rapidly-Renewable Products
☐ Applicable  ☒ N/A

E03.1.8. Other
☐ Applicable  ☒ N/A

E04. Ceilings
Comply with Air Force Corporate Standards for Ceilings:
http://afcfs.wbdg.org/facilities-interiors/ceilings/index.html

E04.1. Ceiling Materials

**Facility Group 1** ceiling materials shall be as follows.

- **Primary:** Exposed Framing (Roof / Floor Structure Above)
- **Secondary:** Grid and Acoustical Tile
- **Tertiary:**

**Facility Group 2** ceiling materials shall be as follows.

- **Primary:** Exposed Framing (Roof / Floor Structure Above)
- **Secondary:** Grid and Acoustical Tile
- **Tertiary:** Gypsum board (painted)

**Facility Group 3** ceiling materials shall be as follows.

- **Primary:** Exposed Framing (Roof / Floor Structure Above)
- **Secondary:** Exposed Framing (Roof / Floor Structure Above)
- **Tertiary:** Gypsum board (painted)

**Facility Group 4** ceiling materials shall be as follows.

- **Primary:** Gypsum board (painted)
- **Secondary:** N/A
- **Tertiary:** N/A

1. Accent ceiling materials such as metal, wood, and rapidly renewable may be used in Group 1 as approved on a case basis.

2. Follow UFC 3-450-01 (Vibration and Noise Control) for acoustic design issues including speech privacy, sound isolation or sound masking.

3. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

*Note: Apply the below base-wide standards for Ceilings (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.*
E04.1.1. Exposed Framing (Roof / Floor Structure Above)

- **Type:** Style 1
- **Applies to:** Group 1, Group 2, Group 3, Group 4
- **Mfr.:** Vulcraft
- **Color:** Neutral colors reviewed on a case basis
- **Finish:** Field painted (Sheen per UFGS)
- **Model #:** Formlok floor and roof decking
- **Other:** N/A

UFGS: Section 05 30 00 Steel Decks
http://www.wbdg.org/FFC/DOD/UFGS/UFGS_05_30_00.pdf

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E04.1.2. Exposed Concrete

- **Applicable:** No
- **N/A**

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E04.1.3. Grid and Acoustical Tile

- **Type:** Style 1 All Purpose
- **Applies to:** Group 1, Group 2, Group 3
- **Mfr.:** Armstrong
- **Color:** White
- **Finish:** Factory
- **Model #:** 2’x2’ Tegular with reveal edge and fine texture, grid 15/16”
- **Other:** Performance characteristics are Class A; NRC-0.70; CAC-40; LR-0.86; minimum recycled content 82%.

UFGS: Section 09 51 00 Acoustical Ceilings
http://www.wbdg.org/FFC/DOD/UFGS/UFGS_09_51_00.pdf
Type: **Style 2 Kitchen**

Applies to:  □ Group 1  ☐ Group 2  □ Group 3  □ Group 4  □ Other

Mfr: Armstrong

Color: White

Finish: Factory

Model #: Kitchen – 2’ x 2’ Ceramaguard

Other: Grid 15/16” Prelude (Ceiling and grid: Fire rated when applicable)

UFGS: Section 09 51 00 Acoustical Ceilings
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 51 00.pdf

---

**E04.1.4. Gypsum Board**

☐ Applicable  ☐ N/A  Number of base standards 1

Image Tool 250 x 188

Type: **Style 1**

Applies to:  ☐ Group 1  ☐ Group 2  ☐ Group 3  ☐ Group 4  ☐ Other

Mfr: US Gypsum

Color: Solid neutral colors

Finish: Paint (sheen per UFGS)

Model #: Tapered edge

Other: N/A

UFGS: Section 09 29 00 Gypsum Board
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 29 00.pdf

Section 09 90 00 Paints and Coatings
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 09 90 00.pdf

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**E04.1.5. Metal Panels**

☐ Applicable  ☐ N/A

---

**E04.1.6. Wood**

☐ Applicable  ☐ N/A
### E04.1.7. Rapidly-Renewable Products

- Applicable: N/A

### E04.1.8. Other

- Applicable: N/A

### E05. Doors and Windows

Comply with Air Force Corporate Standards for Doors and Windows:

### E05.1. Doors and Windows and Frames Materials

#### Facility Group 1

- **Door (frame) and window frame materials shall be as follows.**
  - **Primary:** Aluminum, clear anodized
  - **Secondary:** Hollow metal (painted)
  - **Tertiary:** N/A

- **Door (leaf) materials shall be as follows.**
  - **Primary:** Hardwood veneer
  - **Secondary:** Hollow metal (painted)
  - **Tertiary:** N/A

#### Facility Group 2

- **Door (frame) and window frame materials shall be as follows.**
  - **Primary:** Aluminum, clear anodized
  - **Secondary:** Hollow metal (painted)
  - **Tertiary:** N/A

- **Door (leaf) materials shall be as follows.**
  - **Primary:** Hardwood veneer
  - **Secondary:** Hollow metal (painted)
  - **Tertiary:** N/A

#### Facility Group 3

- **Door (frame) and window frame materials shall be as follows.**
  - **Primary:** Hollow metal (galvanized, painted)
  - **Secondary:** Hollow metal (galvanized, painted)
  - **Tertiary:** N/A

- **Door (leaf) materials shall be as follows.**
  - **Primary:** Hollow metal (galvanized, painted)
  - **Secondary:** Hollow metal (galvanized, painted)
  - **Tertiary:** N/A

#### Facility Group 4

- **Door (frame) and window frame materials shall be as follows.**
  - **Primary:** Hardwood veneer
  - **Secondary:** Hollow metal (painted)
  - **Tertiary:** N/A

- **Door (leaf) materials shall be as follows.**
  - **Primary:** Wood solid core
  - **Secondary:** Composite solid core
  - **Tertiary:** N/A
1. Hardwood casings may be provided over metal frames in Group 1 as approved on a case basis.

2. Paneled textured doors are preferred in Group 4.

3. Do not use hollow-core wood doors.

4. Generally, match original hardware in renovations. Refer to Little Rock Air Force Base standard hardware specification Section 08 71 00 Door Hardware for more information. See Appendix G.

5. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

**Note:** Apply the below base-wide standards for Doors and Windows (products, materials and color). Then refer to the Appendix and apply any additional requirements specifically related to the Facility District in which the project is located.

### E05.1.1. Aluminum

- **Applicable:** Yes
- **Number of base standards:** 1

**Type:** Style 1

**Applies to:**
- Group 1
- Group 2
- Group 3
- Group 4
- Other

**Mfr:** Kawneer

**Color:** Clear anodized

**Finish:** Factory

**Model #:** InFrame Interior Framing, (2x4 nominal framing)

**Other:** Satin stainless steel hardware

**UFGS:**
- Section 08 41 13 Aluminum-Framed Entrances and Storefronts
- Section 08 71 00 Door Hardware
  - [https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf](https://www.wbdg.org/FFC/DOD/UFGS/UFGS 08 71 00.pdf)
### E05.1.2. Hollow Metal

**Type:** Steel Doors

<table>
<thead>
<tr>
<th>Applies to:</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Other</th>
</tr>
</thead>
</table>

**Mfr:** Steelcraft

**Color:** Neutral colors

**Finish:** Paint (Sheen per UFGS)

**Model #:** Hollow metal, 2" w. frames, 16 gauge (welded corners) grouted solid

**Other:** Provide in Group 3 and in utility areas of Group 1 and 2. Provide A25 "galvannealed" coating. All interior steel doors shall have a factory applied primer finish. Provide satin stainless steel hardware.

**UFGS:** Section 08 11 13 Steel Doors and Frames
Section 08 71 00 Door Hardware
https://www.wbdg.org/FFC/DOD/UFGS/UFGS_08_71_00.pdf

---

### Steel Frames

**Type:** Steel Frames

<table>
<thead>
<tr>
<th>Applies to:</th>
<th>Group 1</th>
<th>Group 2</th>
<th>Group 3</th>
<th>Group 4</th>
<th>Other</th>
</tr>
</thead>
</table>

**Mfr:** Steelcraft

**Color:** Neutral colors

**Finish:** Paint (Sheen per UFGS)

**Model #:** Hollow metal, frame grouted solid

**Other:** Satin stainless steel hardware

**UFGS:** Section 08 11 13 Steel Doors and Frames
Section 08 71 00 Door Hardware
https://www.wbdg.org/FFC/DOD/UFGS/UFGS_08_71_00.pdf
E05.1.3. Wood

Type: **Style 1, Administrative**

- ** Applies to:**
  - [ ] Group 1
  - [ ] Group 2
  - [ ] Group 3
  - [ ] Group 4
  - [ ] Other

- **Mfr:** Simpson

- **Color:** Natural hardwood veneer

- **Finish:** Clear Sealer, satin (aqueous)

- **Model #:** 3'x7'x 1 ¾", solid core

- **Other:** Satin stainless steel hardware, Glass lites may be used. Stained birch veneer face, 5 ply construction, rotary cut finish.

---

**UFGS:**
- Section 08 14 00 Wood Doors
  - [hyperlink]
- Section 08 71 00 Door Hardware
  - [hyperlink]

Type: **Style 2, Residential**

- ** Applies to:**
  - [ ] Group 1
  - [ ] Group 2
  - [ ] Group 3
  - [ ] Group 4
  - [ ] Other

- **Mfr:** Simpson

- **Color:** Natural hardwood veneer or paint grade

- **Finish:** Clear Sealer or paint, satin (aqueous)

- **Model #:** Full slab or panels

- **Other:** Satin nickel hardware

---

**UFGS:**
- Section 08 14 00 Wood Doors
  - [hyperlink]
- Section 08 71 00 Door Hardware
  - [hyperlink]

---

**E05.1.4. Other**

- [ ] Applicable
  - [ ] N/A

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**E06. Casework Systems**
Comply with Air Force Corporate Standards for Casework Systems:
http://afcfs.wbdg.org/facilities-interiors/casework-systems/index.html

**E06.1. Casework Materials**

1. Select casework systems and materials considering durability, maintenance requirements and LCCA.

2. Natural stone and cast stone countertops may only be used in Group 1 with approval on a case basis.

3. Metal cabinets and countertops shall be provided in heavy-use operations and in Group 3.

4. Refer to AFCFS for approved materials.

5. Manufacturers listed below are only provided to establish a baseline of equivalency among all applicable manufacturers.

**E06.1.1. Plastic Laminate**

[Image Tool 250 x 188]

Number of base standards 1

<table>
<thead>
<tr>
<th>Type:</th>
<th>Style 1, Low Use Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mfr:</td>
<td>Formica</td>
</tr>
<tr>
<td>Color:</td>
<td>Medium Earth tones and neutral tones</td>
</tr>
<tr>
<td>Finish:</td>
<td>Light textured</td>
</tr>
<tr>
<td>Model #:</td>
<td>High pressure laminate</td>
</tr>
<tr>
<td>Other:</td>
<td>Combine with matching solid-surface banding on casework edges.</td>
</tr>
</tbody>
</table>

UFGS: Section 06 41 16.00 10 Plastic-Laminate-Clad Architectural Cabinets
http://www.wbdg.org/FFC/DOD/UFGS/UFGS 06 41 16.00 10.pdf
### E06.1.2. Solid Polymer Surface

- **Type:** Style 1, High Use Areas
- **Applicable:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr.:** Corian
- **Color:** Medium Earth tones and neutral tones
- **Finish:** Light textured
- **Model #:** Solid Surface
- **Other:** Faces and edge banding

UFGS: Section 12 36 00 Countertops

### E06.1.3. Rapidly-Renewable Products

- **Applicable:** N/A

### E06.1.4. Metal

- **Type:** Style 1
- **Applicable:**
  - Group 1
  - Group 2
  - Group 3
  - Group 4
  - Other
- **Mfr.:** Steel Sentry
- **Color:** Natural stainless steel or neural colors (steel)
- **Finish:** Mill (stainless) or Powder coated (steel)
- **Model #:** Lab, workbench, computer workstation
- **Other:** Provide highly durable fabrications and finishes in Group 3 which are subjected to heavy use.

UFGS: Section 12 31 00 Manufactured Metal Casework
[http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 31 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 31 00.pdf)
E06.2. Countertop Materials

E06.2.1. Plastic Laminate

- **Applicable** (N/A)

- **Number of base standards** 1

- **Type**: **Style 1, Low Use Areas**

- **Applies to**: Group 1, Group 2, Group 3

- **Mfr:** Formica

- **Color**: Medium Earth tones and neutral tones

- **Finish**: Light textured

- **Model #**: High pressure laminate

- **Other**: Only use rounded half or full bullnose and integral backsplash. Do not use plastic laminate edge banding on front edges.

- **UFGS**: Section 06 41 16.00 10 Plastic-Laminate-Clad Architectural Cabinets
### E06.2.2. Solid Polymer Surface

- **Type:** Style 1, High Use Areas
- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr.:** Corian
- **Color:** Medium Earth tones and neutral tones
- **Finish:** Light textured
- **Model #:** Solid Surface
- **Other:** Faces and edges

UFGS: Section 12 36 00 Countertops


### E06.2.3. Natural Stone

- **Type:** Style 1, Group 1 High Visibility, Heavy Use
- **Applies to:** Group 1, Group 2, Group 3, Group 4, Other
- **Mfr.:** Local (TBD)
- **Color:** Neutral tones
- **Finish:** High polish, sealer
- **Model #:** Custom cut slabs
- **Other:** N/A

UFGS: Section 12 36 00 Countertops

E06.2.4. Cast Stone

Applicable: Yes  N/A: No
Number of base standards: 1

**Type:** Style 1, Group 1 High Visibility, Heavy Use

- **Applies to:** Group 1
- **Mfr.:** Local (TBD)
- **Color:** Neutral tones
- **Finish:** High polish, sealer
- **Model #:** Custom cast or cut slabs
- **Other:** N/A

**UFGS:** Section 12 36 00 Countertops

---

E06.2.5. Metal

Applicable: Yes  N/A: No
Number of base standards: 1

**Type:**

- **Applies to:** Group 1, Group 2, Group 3, Group 4
- **Mfr.:** Local (TBD)
- **Color:** Natural stainless steel
- **Finish:** Mill
- **Model #:** Custom fabricated countertops
- **Other:** Provide integral fronts, sides and backsplash

**UFGS:** Section 12 31 00 Manufactured Metal Casework
[http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 31 00.pdf](http://www.wbdg.org/FFC/DOD/UFGS/UFGS 12 31 00.pdf)

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E06.2.6. Other

Applicable: No  N/A: Yes

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E07. Furnishings
Comply with Air Force Corporate Standards for Furnishings:
http://afcfs.wbdg.org/facilities-interiors/furnishings/index.html

E07.1. Durability and Serviceability
Comply with AF Corporate Standards for Durability and Serviceability:

E07.2. Accessories
Comply with AF Corporate Standards for Accessories:

E08. Interior Signs
Comply with Air Force Corporate Standards for Interior Signs:
http://afcfs.wbdg.org/facilities-interiors/interior-signs/index.html

E08.1 Types and Color
Comply with Air Force Corporate Standards for Types and Color:

E08.2. Interior Signs Materials
1. Interior signs must meet LRAFB and UFC standards and receive approval of LRAFB Architect.

2. Natural stone, masonry and cast stone signs may only be used in Group 1 with approval on a case basis.

E09. Lighting, Power and Communication

E09.1. Functionality and Efficiency
Comply with Air Force Corporate Standards for Functionality and Efficiency:

E09.2. Types and Color
F. APPENDIX - Facility Districts

- Applicable
- N/A

Comply with Air Force Corporate Standards for Facility Districts:
http://afcfs.wbdg.org/facility-districts/index.html

Facilities Districts Overview Map:

Note: Apply the base-wide standards in this IFS for Installation Elements, Site Development, Facilities Exteriors and Facilities Interiors (products, materials, color, etc.). Following application of the base-wide standards, refer to the Appendix and apply any additional requirements specifically related to the Facility District.

Enter No. of Facility Districts  1

The following Facility Districts list exceptions to the base standards that are unique to each district. Please refer to the Site Development, Facilities Exteriors, and Facilities Interiors sections of this IFS for base standards.
Photos for each facility group within the Facility District as applicable.

<table>
<thead>
<tr>
<th>Group</th>
<th>Applicable</th>
<th>N/A</th>
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<tbody>
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<td>Group 1</td>
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FACILITY DISTRICTS

Little Rock Air Force Base is divided into districts that align with land use zones as defined in the installation's General Plan. Each district has designated uses that support the base's operations. Generally match adjacent facilities in new construction to promote architectural compatibility throughout the installation. Please refer to Section D03.2. and contact the Base Civil Engineer for additional information. A brief description of each district follows.

1. Headquarters and Training district

This district is bounded on the east by Vandenberg Boulevard, on the west by Thomas Avenue and Cannon Drive, on the north just north of Sixth Street and on the South by Arnold Drive. It includes the extension of Vandenberg Avenue south to the main gate. It also includes the Wing Command, classroom/lab complex, the Heritage Park and a number of other buildings of educational or administrative functions.

The buildings in this area are typically two stories in height. Some are relatively new; others are older structures, most of which have been renovated in a manner so that they blend in. The land is rolling and substantial stands of native trees have been retained, partially dividing the area visually.

The approach to the main gate is a great natural asset and it has been treated in a sensitive manner; it's impressive by any standard. Meet UFC requirements for signage and comply with IFS for static displays at the main gate. The Heritage Park is well designed, incorporating a number of monuments that are handsome but have wisely been kept low-key.

The overall character of this district is that of a very well maintained campus with a relatively low density of building. As the “front door” of the installation the district is visually very appealing.

2. Student Life district

This district is bounded by Sixth Street on the north, Thomas Avenue on the east, partially by Arnold Drive on the south and partially by Cannon Drive on the west. In the northwest corner, the playing fields are excluded from the district and in the southeast corner Buildings 868 and 874 are also excluded.

The district includes the student dormitories, the Student Dining Facility, the Fitness Center and a few related buildings.

The three-story dormitories are the dominant building type in this district and do much to establish its character. The dining hall and a few other one-story buildings, similar in general character to the dormitories, blend well with these. The fitness center is the largest building in the district - one of the largest on base - sitting somewhat away from the dormitories and of compatible materials.

The rolling landscape is a distinct asset to this district as is the native vegetation. The general character of this district is much like a college campus.

3. Community district

This district is somewhat gerrymandered to encompass a range of common use facilities, including recreational fields that adjoin the student dormitory complex.

At its east end, this district takes in the areas south of Arnold Drive and takes in the area north of Arnold Drive to include Buildings 868 and 874. West of Cannon Drive it takes in areas both north and south of Arnold west to Texas Blvd. to take in the clinic. North of Arnold, in this area, it takes in the Commissary then turns south again, extending east (south of Sixth Street) east of Cannon Drive to take in the playing fields.

The district includes a great diversity of building use, age and scale as well as a great deal of open space.

4. Mission Support Facilities district

This district is bounded on the north by CMSgt. Williams Drive, bumping north just east of Vandenberg Blvd. to include Buildings 112, 115,116 and a new unnumbered building. It includes the area between Williams Drive and Second Street east of Vandenberg and is generally bounded on the east by Vandenberg and on the south by Sixth Street. On the west the edge is somewhat west of Cannon Drive and it encompasses the buildings on the west side of Cannon.
The district has a number of primarily one-story brick buildings, a number of metal-walled buildings (including the CE shop complex), and a number of older buildings that have panel-and-batten siding. East of Vandenberg Blvd. the district consists of a campus of Air National Guard buildings that are predominantly of brick and one or two stories in height.

Except for the ANG buildings, the Combat Engineering building and several others, the buildings are typical background buildings, simple in form and material and appropriate for their support role. There is little natural tree cover in this district except at the east end, and landscaping is relatively modest. The overall appearance is that of a well-maintained industrial park of generally small buildings. Abundant land is available for future development.

5. Flightline district

This district is located between the aircraft apron on the north and CMSgt. Williams Drive extending the east-west length of the developed area.

Buildings in this district range from mammoth hangars for C-130 aircraft to small ancillary structures. The hangar structures vary in age and typically have low-slope gable roofs in buff-colored metal and metal walls in the same color.

A number of brick buildings are also present, typically located closer to Williams Drive. These are typically free-standing, but are in some instances attached to a metal building as an office wing. There is always a certain vitality to flightline areas and this results, to some degree, from varying scale, configuration and placement of buildings. At LRAFB this is a very coherent district.

6. Community Support district

This small district is located around the intersection of CMSgt. Williams Drive, extending south somewhat along Arkansas Blvd.

There are relatively few buildings in this district. Buildings 1990 and 1995 are seen together and are of the typical LRAFB materials and general form. Building 1992, further south, is somewhat away from the first two. The fourth building in the district is the Shoppette (No. 1996). The district also includes a lake-front park, extending north and south of the Youth Center.

7. Family Housing district

This district encompasses the entire site presently used for family housing south of Cannon Drive on both sides of Arkansas Avenue.

LRAFB housing structures are made up of a mixture of recently renovated original housing and newly constructed houses.

The general character of the housing area, is very pleasant and would do credit to any subdivision in any city in the country. The natural assets of this area are outstanding.

G. APPENDIX - References

Comply with Air Force Corporate Standards:
http://afcfs.wbdg.org/index.html

19 CIVIL ENGINEER SQUADRON
LRAFB Civil Design Criteria
http://www.wbdg.org/FFC/AF/AFIFS/division_50_minimum_design_requirements.pdf
LRAFB Electrical Design Standards
http://www.wbdg.org/FFC/AF/AFIFS/LRAFB_electrical_design_standards.pdf
LRAFB Mechanical Design Criteria
http://www.wbdg.org/FFC/AF/AFIFS/LRAF_Civil_Engineer_Squadron_Mechanical_Engineering_Design_Criteria_and_Expectations.pdf
LRAFB Architectural Design Guide Supplement
LRAFB 08 71 00 Door Hardware Specifications
http://www.wbdg.org/FFC/AF/AFIFS/05_08_71_00_door_hardware.pdf
LRAFB Approved Species Planting List
http://www.wbdg.org/FFC/AF/AFIFS/approved_species_list.pdf