

2. AMENDMENT/MODIFICATION NO. 0004	3. EFFECTIVE DATE JUN 10, 2004	4. REQUISITION/PURCHASE REQ. NO. N/A	5. PROJECT NO. (If applicable) SPEC. NO. 1400
6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6) CODE	
DEPARTMENT OF THE ARMY U.S. ARMY ENGINEER DISTRICT, SACRAMENTO SACRAMENTO, CALIFORNIA 95814-2922		DEPARTMENT OF THE ARMY U.S. ARMY ENGINEER DISTRICT, SACRAMENTO SACRAMENTO, CALIFORNIA 95814-2922	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(✓)	9A. AMENDMENT OF SOLICITATION NO. W91238-04-R-0017
	✗	9B. DATED (SEE ITEM 11) MAY 11, 2004
		10A. MODIFICATION OF CONTRACTS/ORDER NO. N/A
		10B. DATED (SEE ITEM 13) N/A
CODE	FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
N/A

NOTE: ITEM 13 BELOW IS N/A.

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. N/A
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority) N/A

E. IMPORTANT: Contractor is not, is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
FY 04
AEF DEPLOYMENT CENTER
Hill AFB, Utah

1 Encl

1. Revised Pages: 01010-8, 01011-111-1, 01011-11-5, 01011-D2-3

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED

TI 800-03	Technical Requirements for Design-Build
TI 809-04	Seismic Design for Buildings
TI 809-29	<i>Structural Considerations for Metal Roofing</i>
TI 810-10	Mechanical Design - Heating, Ventilating, and Air Conditioning
TI 811-16	Lighting Design

5.3 NON-GOVERNMENT PUBLICATIONS. The following publications form a part of this document. Unless otherwise specified, the issues of the documents that are DoD adopted are those listed in the Department of Defense Index of Specifications & Standards (DODISS).

5.3.1 ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS (EIA-606)

AIR CONDITIONING AND REFRIGERATION INSTITUTE (ARI)
 4301 North Fairfax Dr., Suite 425
 ATTN: Pubs Dept.
 Arlington, VA 22203
 Ph: 703-524-8800
 Fax: 703-528-3816

ARI 410	Forced-Circulation Air-Cooling and Air-Heating Coils
ARI 430	Central-Station Air-Handling Units
ARI 550/590	Water-Chilling Packages Using the Vapor Compression Cycle
ARI 700	(Apx C) Specifications for Fluorocarbon and Other Refrigerants

5.3.2 AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA)

30 W. University Dr.
 Arlington Heights, IL 60004-1893
 Ph: 708-394-0404
 Fax: 708-253-0088

AMCA 210	Laboratory Methods of Testing Fans for Rating
AMCA 300	Reverberant Room Method for Sound Testing of Fans

5.3.3 ALUMINUM ASSOCIATION (AA)

Pubs Department
 P.O. Box 753
 Waldorf, MD 20604
 Ph: 301-645-0756
 Fax: 301-843-0159

AA ASDI	Aluminum Standards and Data
AA DAF-45	Designation System for Aluminum

CHAPTER 111

FACILITY PERFORMANCE

1. PERFORMANCE

1.1 Basic Function:

- 1.1.1 Provide built elements and site modifications as required to fulfill needs described in the project program.
- 1.1.2 The complete project comprises the following elements:
- a. Substructure (A): Elements below grade and in contact with the ground.
 - b. Shell (B): The superstructure, exterior enclosure, and the roofing.
 - c. Interiors (C): Interior construction, stairs, finishes, and fixtures, except fixtures associated with services and specialized equipment.
 - d. Services (D): Mechanized, artificial, automatic, and unattended means of supply, distribution, transport, removal, disposal, protection, control, and communication.
 - e. Equipment and Furnishings (E): Fixed and movable elements operated or used by occupants in the functioning of the project.
 - f. Demolition (F): Removal of unneeded and undesirable existing elements.
 - g. Sitework (G): Modifications to the site, site improvements, and utilities.
- 1.1.3 Technical criteria to be used for construction shall be taken from the **most current references at the date of April 28, 2004** and shall only be modified as described herein.
- 1.1.4 Code: Make all portions of the project comply with the code. The code referred to herein and 01010 document consists of all applicable local Base Facility Standard, State, and federal regulations, including those listed below:
- a. Federal Regulatory Requirements:
 - (1) Americans with Disabilities Act of 1990, as a public accommodation, as implemented in:
 - (a) 28 CFR 35, Department of Justice regulations relating to State and local governments, including ADAAG.
 - (b) 28 CFR 36, Department of Justice regulations, including ADAAG-1994.
 - (2) Uniform Federal Accessibility Standards (UFAS).
 - (3) 29 CFR 1910-1997, Occupational Safety and Health Standards, as a work place.
 - b. Building codes used for design at Hill AFB include:
 - (1) International Building Code (IBC)
 - (2) NFPA 101, Life Safety Code
 - (3) TI 809-04 Seismic Design For Buildings
 - (4) **TI 809-29 Structural Considerations for Metal Roofing**
 - (5) International Plumbing Code
 - (6) NFPA 13, Installation of Sprinkler Systems
 - (7) NFPA 54, National Fuel Gas Code
 - (8) NFPA 70, National Electrical Code
 - (9) NFPA 72, National Fire Alarm Code
 - (10) NFPA 90A, Installation of Air- Conditioning and Ventilating Systems,
 - c. Standards: The following Hill AFB, Air Force, and Army standards are to be followed:
 - (1) Hill AFB Architectural Compatibility Standards
 - (2) Hill AFB Base Facility Design Standards (refer to Attachments section for version to use)
 - (3) UFC 3-600-01 Fire Protection for Facilities Engineering, Design and Construction
 - (4) MIL-HDBK-1013/1A, Design Guidelines for Physical Security of Facilities
 - (5) DOD 5100.76-M, Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives
 - (6) UFC 1-200-01 Design: General Building Requirements
 - (7) UFC 4-010-01 Design: DoD Minimum Antiterrorism Standards for Buildings
 - (8) UFC 3-520-01 Design: Interior Electrical Systems

for landscaping (except as otherwise noted), complete and useable per G23 and **G29**.

END OF CHAPTER 11

- (2) Design Development: Piping design calculations and entrance locations.
 - (3) Construction: Prior to installation of plumbing fixtures and prior to concealment of piping, air and water tests of piping systems at 110 percent of operating pressure, maintaining pressure for 2 hours to demonstrate system is watertight.
 - (4) Construction: Functional tests of fixtures and equipment.
 - (5) Occupancy: Observation of function during full occupancy simulating extreme conditions.
- 1.6.2 Waste Pipe Sizing:
- a. Size piping as required by code.
 - b. Building Drain: 4 inches diameter, minimum.
 - c. Buried Piping Below Slabs: 2 inches diameter, minimum.
 - d. Pipes 3 inches in Diameter and Smaller: Sloped at 1/4 inch per foot, minimum, downward in the direction of flow.
 - e. Pipes 4 inches in Diameter and Larger: Sloped at 1/4 inch per foot, minimum, downward in the direction of flow.
 - f. Substantiation:
 - (1) Preliminary Design: Analysis and documentation of sewer discharge method and locations.
 - (2) Design Development: Drainage design calculations and documentation of piping outlets.
 - (3) Construction: Air and water pressure tests of piping systems; functional tests of drains and equipment under simulated full occupancy loads.
 - (4) Occupancy: Observation of function during full occupancy simulating extreme conditions.
- 1.6.3 Rain Water Drainage Capacity: As specified in the code and as follows:
- a. Design Rainfall Rate: ~~Short~~ **10 year design storm, 0.8 in/hr intensity** of 1 inch in any 5, **60 minute period.** **duration.**
 - b. Secondary Drainage: Required for roofs and exterior structural decks that do not drain naturally. Provide secondary roof drains connected to a secondary drainage system.
 - c. Substantiation:
 - (1) Preliminary Design: Analysis and documentation of rain water discharge methods and locations.
 - (2) Design Development: Drainage design calculations and documentation of piping outlets.
 - (3) Construction: Air pressure test to verify continuity of piping; functional tests of each drain.
 - (4) Occupancy: Field observation of performance during at least two storms.
- 1.6.4 Ease of Maintenance and Repair:
- a. Provide devices at each branch take-off which allow insertion of measurement devices to monitor flow and pressure levels in the water distribution system.
 - b. Isolation of Piping Segments and Equipment: Provide a means of isolating the following:
 - (1) Each building from main water service. Provide a shut-off valve located inside a valve box whose removable access cover is at grade level.
 - (2) Water meter from building piping.
 - (3) Each tenant space from building service, excluding locations where there is only one fixture with its own isolation valves.
 - (4) Each water branch from main service.
 - (5) Each vertical riser from piping below.
 - (6) Each water branch to fixtures or equipment from main vertical riser.
 - (7) Piping lower than the supply, to prevent unnecessary draining in the case of disconnection.
 - (8) Each plumbing fixture, storage tank, and item of equipment, so that removal of one will not necessitate shutdown of others.
 - (9) Individual fixtures and equipment. Provide an isolation device within 3 feet of pipe connection to item.
 - c. Provision for Drainage of Water Distribution Piping:
 - (1) Slope Piping Toward Drain: 1/4 inch per 10 feet.
 - (2) Provide a system drain at the lowest point in the system.