

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
		1 2

2. AMENDMENT/MODIFICATION NO. W91278-17-SFHZ-0001-0002	3. EFFECTIVE 22 AUG 2017	4. REQUISITION/PURCHASE	5. PROJECT NO. (If applicable) MB16FT26
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6. ISSUED BY Corps of Engineers 109 St. Joseph St. Mobile, AL 36602	CODE	7. ADMINISTERED BY (If other than item 6) CODE	
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP code)	<input checked="" type="checkbox"/>	9A. AMENDMENT OF SOLICITATION NO. W91278-17-SFHZ-0001
		9B. DATED (SEE ITEM 11) 25 JUL 2017
	<input type="checkbox"/>	10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)
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 _____ 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 ACKNOWLEDGEMENT 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)

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

<input type="checkbox"/>	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
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO AUTHORITY OF FAR 43.103(b)
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

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)

The subject solicitation for: **DESIGN BUILD FLIGHTLINE FIRE STATION, EGLIN AIR FORCE BASE, FLORIDA**
Is modified in the following: **REFER TO THE ENCLOSED REVISED SPECIFICATIONS FOR AMENDMENT NO. 0002**

Except as provided herein, all terms and conditions of the document reference 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 OFFICE (Type or print)
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY	16C. DATE SIGNED
(Signature of person authorized to sign)	(Signature of contracting officer)

PART I - REVISIONS MADE BY ADDED AND/OR REPLACEMENT PARAGRAPHS/PAGES/SECTIONS

The items listed below are to be replaced by the corresponding added and/or revised paragraphs/pages or sections. Added and/or revised paragraphs/pages or sections are indicated by a note in bottom right hand corner of each paragraph or page. Added sections are hereby made a part of the contract and are to be inserted in the specification in the proper numerical/alphabetical sequence.

Within the specifications, deletions from the specifications are indicated by strikethrough, e.g.: ~~deletions are marked with strikethrough~~ and additions to the specifications including revisions/substitutions are indicated in bold, italic and underlined, e.g.: ***additions are indicated thus.***

<u>SECTION</u>	<u>Corresponding Added or Revised Paragraph Page, and/or Section</u>
RFP Letter	Revised Paragraph 1
01 10 10	Revised Paragraphs 4.4.8, 7.4.1, 7.4.16.2, 10.2 and 10.3.6.3
01 35 26	Revised Paragraph 1.6.1.2
01 45 00.00 10	Revised Paragraph 3.4.2

Encl as stated

Revised pages of the specifications as indicated in Part I.

RFP LETTER

1. You are requested to submit a Firm-Fixed Priced (FFP) proposal as detailed in the specifications on the website that will be provided by e-mail from the Contract Specialist.

Description of Work: This work includes the design and construction of a ~~28,462~~ 28,541 SF Fire Station and Tire Storage Facility utilizing conventional design and construction methods to accommodate the fire station requirements. The facility will be designed as permanent construction IAW DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High performance and Sustainable Building Requirements. Comply with DoD minimum Antiterrorism Standards for Buildings per UFC 4-010-01. The facility will include apparatus stalls, dispatch station, security forces, training and testing rooms, bedrooms, rest rooms/showers, laundry area, recreation room, day room, vending area, kitchen, dining area, administration area, and storage. Supporting facilities include concrete sidewalks, road re-alignment, parking, storm drainage, lighting, utilities, information systems and environmental measures required by law. The facility shall be design to withstand hurricane Category III force wind in addition to other vertical and horizontal loads.

(NOTE: The remainder of Paragraph 1 is unchanged by the amendment.)

(NOTE: The remainder of the RFP Letter is unchanged by the amendment.)

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4.4.8 Vehicular Circulation

Two-way ingress/egress drives shall be provided to the site. Access drives shall be located on existing and extended paved roads. Design shall provide turn around areas for vehicles denied access.

Required demolition and/or modifications of Wizard Way and Perimeter Road will disrupt current Wizard Way traffic patterns accessing Perimeter Road. The contractor shall determine and provide continuous access from Wizard Way to Perimeter Road throughout construction until the permanent access road is provided. Means and method of access are the sole responsibility of the contractor and shall be coordinated with the COR.

7.4.1 Interior Walls

Interior walls shall be gypsum board on metal studs, gypsum board on corrosion-resistant furring channels attached to CMU, and CMU and sized according to wall height. Provide fire-rated walls where required. Interior walls requiring fire ratings that extend to the underside of the roof structure shall be designed and constructed in accordance with UL standards. Provide acoustically rated walls referencing standards for minimum Sound Transmission Class (STC) ratings. Provide blocking for wall mounted audio-visual equipment and flat panel displays, including but not limited to, Living Room, Department Training Room, Conference Room, and Dorm Rooms. Special STC ratings shall be considered for areas such as ~~SCBA Compressor Room, Watch Desk~~, Training Rooms, Testing Areas, and living quarters. Typical STC-50 wall construction consists of 2 layers of 5/8 inch Type "X" gypsum board on each side of 3 5/8 inch metal studs at 16 inches O.C. with blanket insulation, to underside of structure or grout filled, sand filled, or solid 8" CMU.

7.4.16.2 Apparatus Bays, Apparatus Support and Agent Storage Modules
Firefighting apparatus housed at the Fire Station is of two types: Aircraft Rescue/Fire Fighting (ARFF) vehicles used for aircraft fires, and Structural Vehicles used to fight building fires and respond to other base emergencies. The apparatus bays must be immediately accessible to residential areas to reduce emergency response times. Proper ventilation is required to keep vehicle exhaust out of office and residential areas. Equipment storage and maintenance areas are required immediately adjacent to vehicle apparatus bays. Special requirements for apparatus support areas include:

- An open wall of 14' - 15' long is required in each apparatus bay room to hang ladders
- Climate-controlled storage for PPE with direct access from dorm room area
- Protective Clothing Laundry room will provide disinfection sinks, stainless steel counter, and large size laundry machines

- ~~SCBA maintenance and compressor room must have double door exterior access and contains (this area is located off site and is not part of this project)
Compressor systems 3' 2" wide x 1' 11" long x 5' 6" tall
Storage bank 2' 6" wide x 3' 9" long x 5' 4" tall
Filter unit 2' 8" wide x 3' 9" long x 5' 5" tall
25 bottle storage rack 4' 5" wide x 2' 0" long x 3' 5" tall~~
- Agent Storage this area is co-located in separate tire storage building Directly adjacent to ARFF vehicles
 - Protect from freezing / ultraviolet (UV) light / overheating
 - Exterior access through double doors
 - Forklift access to deliver 55-gallon drums of agent
 - Consider whether forklift is electric or gas to ensure proper ventilation to store room
 - 100 percent containment system for spills
 - Although the material is not hazardous, it cannot be disposed of in septic sewer

10.2 GENERAL DESIGN REQUIREMENTS

The HVAC systems shall be designed to the latest industry standards, codes, Government regulations, and to the specifications included in this solicitation. Design documents shall be submitted and approved prior to commencing work on the HVAC system. The Contractor shall be responsible for the professional quality and technical accuracy of all HVAC design documents and shall insure construction meets all requirements of the approved design. Drawings, specifications, and other design documents upon which construction is based shall be coordinated with other disciplines to insure compatibility and constructability of all building systems. Documentation shall be provided proving the proposed design achieves thirty (30) percent energy savings below ASHRAE 90.1 baseline in accordance with UFC 1-200-02 and EPA 2005 if life cycle cost effective.

A life cycle cost analysis shall be performed to compare different system types to ensure that the most efficient and economical system is selected. Systems to be considered shall include, but not be limited to: chilled water variable air volume air handling units, water source heat pumps, and air cooled heat pumps. Systems selected for the analysis shall be viable solutions for the climate and geographical conditions.

Air handling units serving the building spaces shall be located inside mechanical rooms. The layout of the rooms and equipment shall consider proper maintenance clearances around all equipment including coil pull space, separation of conditioned and unconditioned areas, and observance of the "dedicated electrical space" around electrical equipment as required by the National Electrical Code (NEC).

Outside air for ventilation shall be drawn in through wall-mounted louvers located a minimum of ten (10) feet above finished grade. The outside air shall be ducted to and conditioned by a Dedicated Outside Air (DOA) air-to-air total energy recovery ventilator to assist in humidity control in the facility and to reduce cooling and heating loads on the central station HVAC systems. The conditioned outside air shall be supplied directly to the individual spaces at room neutral temperatures. The DOA shall condition the air using an enthalpy

type wheel, or heat recovery loop, or a plate and frame heat exchanger. ~~The DOA supply fan shall operate at variable speeds as required by CO2 based demand ventilation control system. The DOA exhaust/relief fan shall operate at variable speeds as required for building pressurization control.~~

(NOTE: The remainder of Paragraph 10.2 is unchanged by the amendment.)

10.3.6.3 Ductwork

Ducts shall be galvanized steel with G90 coating. Ducts shall be designed, constructed and installed accordance with SMACNA Standards. Provide external FSK foil faced wrap insulation or rigid duct insulation for supply and outside air ducts to provide a U-value less than 0.165 BTU/sq. ft. - °F. Internally lined duct is prohibited except in return air transfer boots. Duct systems shall not be installed underground. Flexible ducts shall comply with NFPA 90A and UL 181 and be limited to five (5) foot maximum length and flexible elbows shall be limited to less than ninety (90) degrees total bend. Only one section of flexible duct is allowed for each diffuser. All ninety (90) degree elbows shall be constructed from hard duct. Turning vanes shall be provided in duct changes of direction with non-radius elbows.

In areas where the ducts are exposed, provide double wall round spiral seam duct with insulation in the cavity between inner and outer walls. Fiberglass duct shall not be used. Size all exhaust, return, outside air, and low-pressure supply ductwork utilizing the static regain method for pressure drop rating of 0.08 inch static pressure per one hundred (100) feet of duct. Medium-pressure supply ductwork shall be sized for maximum pressure drop of 0.25 inch static pressure per one hundred (100) feet of duct and a maximum velocity of two thousand (2,000) fpm.

Do not use scoops in the ductwork for extraction of air to branch lines. Use forty-five (45) degree leading edge takeoffs with volume dampers.

Bends in rigid ductwork shall be at a minimum radius to diameter ratio of one and one-half (1-1/2). Each duct branch shall be fitted with a manual balancing damper. All ductwork shall be located above slab, supported from roof structures. Return air shall be ducted to unit from return ducts routed into return air plenum space. ~~Ceiling return air plenums can be used for administration or support areas.~~ Duct return shall maintain NC-25 requirements at rooms for general occupancy space. Leak test ductwork in accordance with SMACNA Duct Leakage Test Manual. Total duct leakage shall not exceed two (2) percent of total system airflow (cfm). Ceiling access shall be provided to all devices or areas that may require periodic inspection, including but not limited to balancing devices, motor operated dampers, airflow measuring stations, smoke/fire dampers, etc. Provide permanent test ports in ductwork at static pressure test points and DDC sensor locations. Provide manual balancing dampers at each take-off to a diffuser, register, or grille, located as far away from the air outlet as practical.

(NOTE: The remainder of Paragraph 10.3.6.3 is unchanged by the amendment.)

(NOTE: The remainder of the Section is unchanged by the amendment.)

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1.6.1.2 Contractor Quality Control (QC) Manager:

The Contractor Quality Control Manager can not be the SSHO on this project.

(NOTE: The remainder of the Section is unchanged by the amendment.)

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3.4.2 CQC System Manager

Identify as CQC System Manager an individual within the onsite work organization who is responsible for overall management of CQC and have the authority to act in all CQC matters for the Contractor. The CQC System Manager must be a construction person with a minimum of ten (10) years in related work. This CQC System Manager must be on the site at all times during construction and be employed by the prime Contractor. The CQC System Manager may not have duties as project superintendent in addition to quality control. Identify in the plan an alternate to serve in the event of the CQC System Manager's absence. The requirements for the alternate are the same as the CQC System Manager.

(NOTE: The remainder of the Section is unchanged by the amendment.)

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