

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J	PAGE OF PAGES 1 10
2. AMENDMENT/MODIFICATION NO. 0005		3. EFFECTIVE DATE 12-May-2023	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)
6. ISSUED BY NAVFACSYSCOM MID-ATLANTIC ACQUISITION CORE 9324 VIRGINIA AVENUE NORFOLK VA 23511-3095		CODE N40085	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X	9A. AMENDMENT OF SOLICITATION NO. N4008523R2566
				X	9B. DATED (SEE ITEM 11) 05-Apr-2023
					10A. MOD. OF CONTRACT/ORDER NO.
					10B. DATED (SEE ITEM 13)
CODE		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 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)					
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.					
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)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> 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.) SOLICITATION NO. N40085-23-R-2566: HANGAR 404 FIRE PROTECTION & BUILDING ENVELOPE REPAIRS AT NAVAL AIR STATION OCEANA, VIRGINIA BEACH, VIRGINIA Contact POC: Jonathan Durham; EMAIL: jonathan.m.durham.civ@us.navy.mil. See Continuation Page					
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)		
			TEL: _____ EMAIL: _____		
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 12-May-2023

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE (SF 30)

The following have been added by full text:

AMENDMENT 0005

This amendment is to incorporate the following:

1. Specification Revisions
 2. Drawing Revisions
-

1. Specification Revisions (attached separately) are summarized below:

SECTION 01 42 00

1.2 ORDERING INFORMATION

Added the following reference:

“NATIONAL COUNTERINTELLIGENCE AND SECURITY CENTER (NCSC)”

SECTION 01 57 19

1.5.1.1.2.3 Construction Dewatering

At the end of the 5th paragraph, replaced “and” with a comma and added “, and Work Plan submittal”. 5th Paragraph now to read: “Refer to Section 31 23 00.00 20 EXCAVATION AND FILL for ground water dewatering treatment requirements, guidance, and Work Plan submittal.”

3.7.2.2 Control and Management of Solid Wastes

Added “from the interior and exterior of the Hangar” to the end of the 7th sentence.

3.7.3.6 AFFF Disposal

In the 2nd paragraph, replaced “TO” with “to”; added “triple” and “rinse” and added this as the second sentence: “Treatment requirements are included in Specification 31 23 00.00 20 EXCAVATION AND FILL, section 1.7.3 Dewatering Work Plan.”

SECTION 07 42 13

1.3.2 Structural Performance

Deleted “and seismic tests” from the last sentence of the 3rd paragraph

1.4 SUBMITTALS

Deleted “seismic tests” from SD-06 Test Reports

SECTION 07 42 63

1.3.2 Structural Performance

Deleted “and seismic tests” from the last sentence of the 3rd paragraph

SECTION 07 84 00

1.1 SUMMARY

b. deleted “seismic”

1.4 SUBMITTALS

Deleted “seismic tests” from SD-06 Test Reports

SECTION 13 50 00

1.3.3 ACTIVATION

Paragraph A at the end of the paragraph the following

“If sensors are still active after 10 minute pause then system shall re-activate for another 10 minutes.”

Paragraph B after Manual Activation add the following

“(during inspection)”

Paragraph C delete “but no more than, 4 zones for”

And delete “three zones” and replace with “four zones total”

3.15 POSTED INSTRUCTIONS

Added new paragraph 3.16 as follows:

“3.16 WARRANTY

Repair services and replacement parts for the system must be available for a period of 10 years after the date of final acceptance of this work by the Contracting Officer. During the warranty period, the service technician must be on-site within 48 hours after notification. All repairs must be completed within 48 hours of arrival on-site. During the warranty period, the installing manufacturer is responsible for conducting all required testing and maintenance in accordance with the requirements and recommended practices of the system manufacturer. Installing contractor/manufacturer is NOT responsible for any damage resulting from abuse, misuse, or neglect of equipment by the end user.”

SECTION 22 00 00

3.1.6.2 Pipe Supports and Structural Bracing, Seismic Requirements

Changed title from “Pipe Supports and Structural Bracing, Seismic Requirements” to “Supports and Structural Bracing”

Deleted “seismic” from the first sentence

Changed 22 05 48.00 20 title in reference from “MECHANICAL SOUND VIBRATION, AND SEISMIC CONTROL” to “MECHANICAL SOUND AND VIBRATION”

SECTION 22 05 48.00 20

TITLE

Changed title from “MECHANICAL SOUND, VIBRATION, AND SEISMIC CONTROL” to “MECHANICAL SOUND AND VIBRATION”

1.2.3 Manufacturer

Deleted “or seismic-protection” from first sentence.

1.3.3 Machinery

Changed “seismic” to “ATFP” in last sentence.

1.3.5 Machinery Vibration Criteria

Removed “seismic” from first sentence.

1.3.7 Seismic Protection Criteria

Changed title from “Seismic Protection Criteria” to “ATFP Criteria”

Removed “from earthquakes” from the 2nd sentence.

Deleted seismic from the 5th, 7th 8th, and 9th sentences.

1.4 SUBMITTALS

Changed “Seismic Snubbers” to “Snubbers”

1.5.1 Vibration Isolator Procurement

Deleted “seismic” from 1st sentence

2.9 SEISMIC SNUBBERS FOR EQUIPMENT

Changed title to “SNUBBERS FOR EQUIPMENT”

3.1.3 Vertical Stops

Deleted “seismic” from last sentence

3.1.6 Seismic Snubbers

Changed title to “Snubbers”

3.1.7 Machinery

Deleted “seismic” from 1st and last sentences.

3.2.1 Field Inspections

Deleted “seismic” from the 1st sentence.

3.2.2 Spring Isolator Inspection

Deleted “seismic” from the 1st and last sentences

SECTION 23 05 15

1.2 GENERAL EQUIPMENT

Changed 22 05 48.00 20 title in reference from “MECHANICAL SOUND VIBRATION, AND SEISMIC CONTROL” to “MECHANICAL SOUND AND VIBRATION”

3.3 SUPPORTING ELEMENTS INSTALLATION

Changed 22 05 48.00 20 title in reference from “MECHANICAL SOUND VIBRATION, AND SEISMIC CONTROL” to “MECHANICAL SOUND AND VIBRATION” in the 6th paragraph

SECTION 23 05 48.19

TITLE

Changed title from “SEISMIC BRACING FOR HVAC” to “BRACING FOR HVAC”

1.2.1 General Requirements

Replaced entire section with the following text: Apply the requirements for antiterrorism and force protection measures described in this section and on the drawings to the overhead mechanical equipment and mechanical systems inside of the building which weigh 31 pounds or more (excluding distributed systems such as piping and ductwork networks that collectively exceed that weight). Where there is a conflict between the specifications and the drawings, the specifications will take precedence.

Design all equipment mountings to resist forces of 0.5 times the equipment weight in any horizontal direction and 1.5 times the equipment weight in the downward direction.

1.2.2 Mechanical Equipment

Replaced entire first paragraph with the following text: Mechanical equipment to be braced for antiterrorism and force protection must include the following items to the extent required on the drawings or in other sections of these specifications:

1.2.3 Mechanical Systems

Deleted section

1.2.4 Items Not Covered By This Section

Deleted section

1.2.4.1 Items Requiring No Seismic Restraints

Deleted section

2.1.1 Rigidly (Base and Suspended) Mounted Equipment

Deleted “seismic” from last sentence in 1st paragraph and in 2nd paragraph

Deleted “for earthquake loading” from the 1st sentence of the 1st paragraph

2.1.2 Nonrigid or Flexibly-Mounted Equipment

Deleted “seismic” and “seismically” from the 1st, 2nd and last sentences of the last paragraph

2.3.1 Braided Hose Expansion Joint

Deleted “seismic” from first paragraph in 1st sentence and 3rd sentence

2.4 SWAY BRACING MATERIALS

b. deleted “in seismic applications”

2.5 MULTIDIRECTIONAL SEISMIC SNUBBERS

Deleted “seismic” from title and 1st sentence

3.4 SPREADERS

Replaced “seismic activity” with “movement” in 1st sentence

3.5 SWAY BRACES FOR PIPING

Deleted “seismic” from 1st sentence

Replaced “seismic” with “ATFP” in last sentence

3.5.4 Clamps and Hangers

Replaced “seismic” with “ATFP bracing” in 2nd sentence of 2nd paragraph

3.6.1 Braced Ducts

Deleted “seismic” from 2nd sentence

3.7.1 General

Deleted “seismic” from 1st sentence of 1st paragraph and from the 2nd paragraph

3.7.2 Controls

Deleted section

3.8.2.2 Cartridge Injection Adhesive Anchors

Deleted “seismic” in 1st sentence

3.8.2.3 Capsule Anchors

Deleted “seismic” in 1st paragraph

SECTION 23 11 20

3.3.5 Seismic Requirements

Changed title from “Seismic Requirements” to “ATFP Requirements”

Deleted “seismic” and “seismically” from paragraph

SECTION 23 23 00

3.2.12.12 Seismic Requirements

Changed title from “Seismic Requirements” to “ATFP Requirements”

Deleted seismic from 1st sentence

Changed reference from “2 05 48.00 20 MECHANICAL SOUND, VIBRATION, AND SEISMIC CONTROL” to “23 05 48.19 BRACING FOR HVAC”

SECTION 23 30 00

1.1 REFERENCES

Added “NATIONAL COUNTERINTELLIGENCE AND SECURITY CENTER (NCSC); ICD/ICS 705; (2020) Technical Specifications for Construction and Management of Sensitive Compartmented Information Facilities”

1.3 SUBMITTALS

Added “Security Bars”; “Acoustical Duct Liner”; and “Waveguide Air Vent” all as G-coded submittals

2.8 DUCT SYSTEMS

Added the following new sub paragraphs:

“2.8.1.5 Duct Security Bars

Provide field or factory-fabricated and field installed security bars constructed of 1-1/4 inch frame, 1/2 inch diameter bars in the vertical and horizontal orientation and 6 inch on center both ways. Providing framing to mount inside of the ductwork. Provide access panel on the secure side of security bars.”

“2.8.1.6 Acoustic Duct Liner

Provide acoustical duct liner for sound attenuation were indicated on the plans. Use fibrous glass designed or flexible elastomeric duct liner for lining ductwork and conforming to the requirements of ASTM C1071. Type I and Type II. Provide uniform density, graduated density, or dual density liner composition, as standard with the manufacturer. Provide not less than i inch coated lining. Where acoustical duct liner is used, provide the thermal equivalent of the insulation in Section 23 07 00 THERMAL INSULATION FOR MECHANICAL SYSTEMS for liner or combination of liner and insulation applied to the exterior of the ductwork. Increase the duct sizes shown to compensate for the thickness of the lining used. In lieu of sheet metal duct with field-applied acoustical lining, provide acoustically equivalent lengths of fibrous glass duct, elastomeric duct liner or factory fabricated double-walled internally insulated duct with perforated liner. Fibrous glass duct is only allowed where acoustical duct is required. Fibrous glass duct must not used in lieu of metal duct with insulation.”

“2.8.1.7 Radio Frequency Waveguide Air Vent

Provide radio frequency waveguide air vents were indicated on the plans. Provide 1 inch thick steel honeycomb cell geometry with 1/8 inch cells. Provide with honeycomb section continuously welded, brazed or soldered to the frame. Provide with mounting flanged and gaskets. The airflow resistance for the unit must be below 0.07 inches water column at 1000 feet per minute air flow. Provide waveguide assembly compliant with ICD/ICS 705 - Technical Specifications for Construction and Management of Sensitive Compartmented Information Facilities.

3.6 PENETRATIONS

Added the following new sub-paragraph:

“3.6.6 Controlled Area Penetrations

Where ducts pass from uncontrolled area to controlled area, provide security bars, waveguide air vents, and sound attenuation. Where ducts pass through a sound rated wall, provide sound attenuation.”

SECTION 23 52 00

3.3.3.1 Seismic Requirements for Supports and Structural Bracing

Changed title from “Seismic Requirements for Supports and Structural Bracing” to “ATFP Requirements for Supports and Structural Bracing”

Deleted “seismic” from 1st sentence

Changed title of reference to 23 05 48.19 from “SEISMIC BRACING FOR HVAC” to “BRACING FOR HVAC”

SECTION 23 64 26

3.1.10.11 Seismic Requirements

Changed title from “Seismic Requirements” to “ATFP Requirements”

Deleted “seismic” from 1st sentence

Changed title of reference to 23 05 48.19 from “SEISMIC BRACING FOR HVAC” to “BRACING FOR HVAC”

SECTION 23 65 00

2.5.1.2 Construction

Deleted “seismic” from the 2nd sentence

Deleted “and local seismic values.” from the 3rd sentence

SECTION 23 82 00.00 20

2.4 NOISE, VIBRATION AND SEISMIC CONTROLS

Deleted entire section

SECTION 26 33 53

2.11.4 Seismic Requirements

Changed title from "Seismic Requirements" to "ATFP Requirements"

Deleted "seismic" from 1st sentence

Changed title of reference to 23 05 48.19 from "SEISMIC BRACING FOR HVAC" to "BRACING FOR HVAC"

3.1.5 Seismic Protection

Changed title from "Seismic Protection" to "ATFP Protection"

Deleted "seismic" from 1st sentence

Changed title of reference to 23 05 48.19 from "SEISMIC BRACING FOR HVAC" to "BRACING FOR HVAC"

SECTION 27 41 00

3.3 MOUNTING, RIGGING AND SEISMIC RESTRAINT

Changed title from "MOUNTING, RIGGING AND SEISMIC RESTRAINT" to "MOUNTING, RIGGING AND ATFP RESTRAINT"

c. deleted "seismic"

SECTION 31 23 00.00 20

1.7.3 Dewatering Work Plan

In the 3rd paragraph, replaced "70" with "4" and added the following sentence at the end: "The same treatment effluent requirements are applicable to AFFF piping rinsate water containerized for treatment."

"In the 4th paragraph, replaced "per manufacture recommendations" with "weekly" and added the following sentence at the end: If PFOS+PFOA are detected above the detection limits of EPA Method 1633, the treatment media needs to be changed out."

SECTION 33 30 00

1.2 Submittals

Deleted "Concrete Pipe Test"

Added "Operating and Maintenance (O&M) Instructions; G"

2.3 OIL/WATER SEPARATOR

Replaced entire section with the following text:

"OIL/WATER SEPARATOR

Provide a double walled horizontal atmospheric-type coated steel vessel intended for the separation and storage of flammable and combustible liquids. The separator must have the structural strength to withstand static and dynamic hydraulic loading while empty and during operating conditions. The Oil/Water Separator's dimensions and thickness must be in strict compliance with Roark's Formulas for Stress and Strain as presented in UL 58. Calculations, signed and stamped by a Professional Engineer registered in the Commonwealth of Virginia must be submitted to document structural strength under specified overbearing or external pressure. A separator with a reduced shell thickness is not permissible. The in-ground oil/water separator shall be rated for highway loading (H2O). The oil/water separator shall not allow for stormwater intrusion from the surface.

The chamber must have a minimum flow rate of 400 GPM. Provide separator with provisions for an oil level alarm and leak detection systems having a total minimum volume of 4000 gallons to comply with Spill Prevention Control and Countermeasures (SPCC) plan requirements. The sizing of this oil/water separator is consistent with industry protocols for complying with the minimum federal spill and discharge regulations. A separator of smaller volume is not permissible. Access hatch must be provided for inspection and maintenance. Should the oil water separator be within the groundwater table, contractor must provide adequate anchors supports, polyester or steel hold down straps, and concrete deadman as required to overcome buoyancy, per manufacturer's requirements.

Provide separator designed for intermittent and variable flows of water, oil, or any combination of non-emulsified oil-water mixtures ranging from zero to 400 gal/min. Nominal separator retention time must be 10 minutes, based on total unit volume

Separator must have the following oil storage capacities

- a. High oil level, equal to about 20% of the static vessel volume
- b. High-high oil, equal to about 43% of the static vessel volume,
- c. Emergency oil spill capacity equal to a minimum of 2700 gallons.

Influent characteristics:

- a. Typical operating temperature range of the influent oil in water mixture: 40° F to 80° F
- b. Typical specific gravity range of the oils at operating temperatures: 0.71 to 0.92.
- c. Typical specific gravity range of the fresh water at operating temperatures: 1.00 to 1.03.

Effluent Characteristics:

- a. The free oil and grease concentration in the effluent from the separator must not exceed 10 mg/l (10 PPM). To achieve this goal, it will be necessary to remove all free oil droplets equal to and greater than 20 microns.

Separator must be designed in accordance with Stokes Law and the American Petroleum Institute Publication 421, "Monographs on Refinery Environmental Control - Management of Water Discharges; Design and Operation of Oil/Water Separators." The total effective surface area of the parallel-corrugated plate coalescer must be determined by OWS manufacturer for the flow, temperature, and oil specific gravity conditions specified above. The total effective surface area of the coalescer must be determined by OWS manufacturer for the flow, temperature, and oil specific gravity conditions specified above. Calculations, signed and stamped by a Registered Professional Engineer must be submitted to document specified effluent quality based on complete removal of the specified oil globule. A separator with lower effective surface areas is not permissible.

Separator capacities, dimensions, construction, and thickness must be in strict accordance with Underwriters Laboratories, Subject UL-58 Standard for Safety, Steel Underground Tanks for Flammable and Combustible Liquids, Double-wall construction with 360-degree Steel Secondary Containment. Separator must comply with National Fire Protection Association NFPA 30 Flammable and Combustible Liquids Code. The inner steel tank must be completely contained within the outer steel tank, enclosing 100% of the tank volume. The tank must have a double steel shell without a defined space between the layers (UL Type I Double-wall). The space between the inner and outer steel walls must be monitored with an approved electronic leak detection device through a pipe that extends vertically to the top of the tank from the bottom of the shell. Tank construction using a thin-walled primary tank with external fiberglass jacket is not permissible.

Separator must consist of inlet and outlet connections, non-clogging flow distributor and energy dissipater device, stationary under flow baffle, pre-settling area for solids, sludge baffle, oil coalescing chamber with removable parallel corrugated plates and coalescers to optimize separation of free oil from water, effluent downcomer positioned to prevent discharge of free oil that has been separated from the water, access manways for coalescers and each chamber, fittings for vent, oil pump-out, sampling, gauging, leak detection, and lifting lugs.

Two (2) 24-inch diameter grade level manholes for H20 vehicle traffic loading, UL approved, complete with _____-inch extensions (length based on burial depth), covers, gaskets, and bolts. One manway must be placed between the inlet and the parallel-flat/corrugated plate coalescer to facilitate access into sediment chamber for solids removal. One manway must be placed between the parallel flat/corrugated plate coalescer and outlet to facilitate access into the oil water separation chamber for oil removal.

identification plates: Plates to be affixed in prominent location and be durable and legible throughout equipment life.

2.3.1 Operating and Maintenance (O&M) Instructions

Submit in accordance with Section 01 78 23 OPERATION AND MAINTENANCE DATA as supplemented and modified by this specification section.”

3.3.1.1.1 Concrete Pipe

Deleted entire section making "Precast Concrete Manholes" the new 3.3.1.1.1

3.3.1.1.1 Precast Concrete Manholes

Added the following as a new subpart for new 3.3.1.1.2

"3.3.1.1.2 Testing of Oil/Water Separator

Contractor to perform leak testing on installation of oil water separator."

2. Drawing Revisions (attached separately) are summarized below:

DOCUMENT 00 01 15 LIST OF DRAWINGS

1.2 CONTRACT DRAWINGS

NAVFAC Dwg. Nos. 12821633, 12821655, 12821846, 12851982, 12852002, 12852003, 12821859, 12821869, 12821871, 12821875, 12852019, 12852020, 12821879, 12821883, 12821884, and 12821889 are revised as of April 25, 2023. These revised drawings accompany this amendment.

On NAVFAC Dwg. No. 12821633

Added sheet note 2 "EXISTING TEL UTILITIES LABENED WITH "***" MUST BE CONSIDERED CONCRETE ENCASED IN 1'x1' CONCRETE.

Adjusted pipe profile details C1, A1, and A3

On NAVFAC Dwg. No. 12821655

Added note to detail D1, D2, C1, C2, and B1 "REMOVE AND DISPOSE OF EXISTING 6" DRAINAGE LAYER. REPLACE WITH COMPACTED 6" LAYER OF AGGREGATE SUBBASE."

On NAVFAC Dwg. No. 1282146

Removed sheet note 2. Sheet note 3 is now sheet note 2.

Added keynote 18 "MINIMIZE CORSSING OF THE CONTROLLED AREA BOUNDARY WALLS AND FLOORS. UTILIZE FIBER CONTROL SIGNAL WHEN THE CONTROLLED AREA BOUNBARY. PROVIDE REQUIRED COPPER TO FIBER SIGNAL TRANSDUCERS.

Changed leader from TRANE EMS PANEL to BMS Panel.

On NAVFAC Dwg. No. 12851982

Added note to DOAS 7 "MINIMIZE CORSSING OF THE CONTROLLED AREA BOUNDARY WALLS AND FLOORS. UTILIZE FIBER CONTROL SIGNAL WHEN THE CONTROLLED AREA BOUNBARY. PROVIDE REQUIRED COPPER TO FIBER SIGNAL TRANSDUCERS.

On NAVFAC Dwg. No. 12852002

Added note "MINIMIZE CORSSING OF THE CONTROLLED AREA BOUNDARY WALLS AND FLOORS. UTILIZE FIBER CONTROL SIGNAL WHEN THE CONTROLLED AREA BOUNBARY. PROVIDE REQUIRED COPPER TO FIBER SIGNAL TRANSDUCERS.

On NAVFAC Dwg. No. 12852003

Added note "MINIMIZE CORSSING OF THE CONTROLLED AREA BOUNDARY WALLS AND FLOORS. UTILIZE FIBER CONTROL SIGNAL WHEN THE CONTROLLED AREA BOUNBARY. PROVIDE REQUIRED COPPER TO FIBER SIGNAL TRANSDUCERS.

On NAVFAC Dwg. No. 12821859

Added keynote 21 “DISCONNECT HANGER DOOR FEEDERS (THREE CIRCUITS) FROM EXISTING BREAKERS. PRESERVE WIRE FOR EXTENSION TO NEW SOURCE. MARK BREAKERS AS SPARE.”

On NAVFAC Dwg. No. 12821869

Added keynote 11 “11. INTERCEPT (E) DOOR FEEDER CONDUITS AND CIRCUITS. PROVIDE (3) #6 AWG AND (1) #10 GND IN 1-1/4" CONDUIT AND EXTEND OVERHEAD THROUGH BUILDING FROM (E) PANEL 2DP2 TO (E) SUBSTATION #2 (SEE E-114).”

On NAVFAC Dwg. No. 12821871

Added Keynote 20 “PROVIDE (3) 60A NEMA 3R ENCLOSED BREAKERS FOR HANGAR DOOR POWER, MOUNT TO EXTERIOR OF (E0 UNIT SUBSTATION DISTRIBUTION SECTION. TAP BUS AHEAD OF MAIN BREAKER AND CONNECT (3) #6 AWG AND (1) #10 GND FOR EACH OF THREE DOOR CIRCUITS. SEE E-602 FOR 1-LINE DIAGRAM.”

Added Keynote 21 “PROVIDE THREE SETS OF (3) #6 AWG AND (1) #10 GND IN 1" CONDUITS FOR HANGAR DOOR POWER AND EXTEND UNDERGROUND BETWEEN BUILDING AND (E) SUBSTATION #2”

Added 3 60A NEMA 3R enclosed breakers mounted to existing substation #2

On NAVFAC Dwg. No. 12821883

Added the following text to existing panel 2DP2 “DISCONNECT HANGAR DOOR CIRCUITS. SEE ED102 AND E-703”

On NAVFAC Dwg. No. 12821884

Added sheet note 4 “SEE ED102, E-112, E-114, AND E-601 FOR REROUTE OF HANGAR DOOR POWER”

Added 60A NEMA 3R Enclosed breaker to detail A1 “RISER DIAGRAM – DISTRIBUTION SYSTEM – ELECTIRCAL”

On NAVFAC Dwg. No. 12821889

Added note 1 to existing panel schedule 2DP2 “DISCONNECT DOOR POWER CIRCUITS FROM BREAKERS. SEE ED102 AND E-601. MARK BREAKERS AS SPARE.”

On NAVFAC Dwg. No. 12821875

Added sentence to end of keynote 6 “SEE DETAIL C2 ON E-501.”

On NAVFAC Dwg. No. 12852019

Added sentence to end of keynote 5 “SEE DETAIL C2 ON E-501.”

On NAVFAC Dwg. No. 12852020

Added sentence to end of keynote 4 “SEE DETAIL C2 ON E-501.”

On NAVFAC Dwg. No. 12821879

Added detail C2 “ILDFA GROUNDING DETAIL”

(End of Summary of Changes)