AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
N/A	1	2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Am-0005	2 September 2004		KNMD013002A1

6. ISSUED BY CODE

U.S. Army Engineer District, Honolulu
Corps of Engineers, Building 230
ATTN: CEPOH-CT-C (Joy Sakamoto)
Fort Shafter, Hawaii 96858-5440

7. ADMINISTERED BY *(If other than Item 6)* CODE

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*

CODE FACILITY CODE

(√)	
X	9A. AMENDMENT OF SOLICITATION NO. W9128A-04-R-0014
	9B. DATED *(SEE ITEM 11)* 30 July 2004
	10A. MODIFICATION OF CONTRACTS/ORDER NO.
	10B. DATED *(SEE ITEM 13)*

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)*

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 ☐ 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.)*

FY04 MILCON Project No. KNMD013002A1, Upgrade Electrical Distribution System, Phase 1/5, Hickam Air Force Base, Oahu, Hawaii

(Continued on Page 2.)

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

1. CHANGES TO THE SOLICITATION. Attached hereto are new and revised pages to specifications. Revised pages replace like-numbered pages. The revision mark "(Am-0005)" is shown on each new and revised page.

a. REVISED PAGES. Following are revised items to the specifications. Changes are indicated in **bold** print.

Section 00900, Page 00900.A-3
Section 01451 Page 8

b. NEW PAGES. The following pages are added to the specifications:

Section 00900, Page 00900.A-4 through 00900.A-7

2. CHANGES TO DRAWINGS

REVISED DRAWINGS (NOT ISSUED). Following are revisions made to the drawing listed. This revised drawing will not be issued with this amendment but will be furnished to the successful offeror at the time of award of the Contract.

Drawing No. 812-42-05, Sheet No. E-502, Ring No. 33. At Zone D1, in detail 1/E-502/E-502 change concrete compressive strength from 20 Mpa (3000 PSI) to 17 Mpa (2500 PSI).

3. The proposal closing date of SEPTEMBER 9, 2004, 2:00 P.M., Hawaiian Standard Time, remains unchanged.

Q6. Contract requires contractor to remove excess spoil from site. Boring logs show evidence of possible contaminants without testing prior to bid. We will be unable to determine where to export to depending on levels of contaminants.

A6. A unit priced proposal item will be added via a future amendment to the proposal schedule to address the disposal of contaminated soil.

Q7. Can excavated materials be used for backfilling of electrical ductbanks for base bid and options?

A7. Yes.

Q8. Does water produced from dewatering operation, require it to be sampled and tested? Where does water get disposed at?

A8. Recommend using sections of open trenches to accept dewatering from another section.

Q9. We noted that the 11.5Kv optional items extend from the new Mamala Substation to Manhole Group HE 41/5I. Are we to assume that the remaining optional runs from there past Manhole Group HE 41/5C (to the last #12 manhole) are not to be priced?

A9. Your assumption is correct. The remaining optional run should not be priced.

Q10. Within the restricted area runs through the hangers on Hanger Ave, will any areas of concrete aprons need to be removed and replaced in their entirety or will the in accordance with the trench section details on the drawings?

A10. All trenched/excavated areas should be restored to existing conditions. Removed sections of concrete aprons should be replaced in kind. Designs should meet the structural integrity requirements stated in the solicitation, and should be provided as design-build function.

Q11. Section 00010 Proposal Schedule Item No. 2 includes the work identified on page 00010-5 as "...all construction work except for the 11.5 KV lines identified as option work..." The work for Options No. 1 through 6 is identified as Proposal Schedule Items No. 3 through 8 and includes 11.5 KV work from Mamala (Back) Station up to MH Group HE 41/5I. The plan and profile for this duct bank option work is shown on

drawings E-104 through E-109, and includes the symbol _ _ _ _ _ _ to identify "**NEW 11.5 KV DUCTLINES (ADDITIVE)**". The remaining 11.5 KV work, which we understand is to be included in the base bid Item No. 2, is shown on drawings E-109 through E-114 extending from MH Group HE 41/5I to MH Group HE41/5C, but still includes the same "**(ADDITIVE)**" notation. Please confirm that the "additive" notation is in error and that this work is to be included in base bid Item No. 2.

A11. The 11.5kV work from MH Group HE 41/5I to MH Group HE41/5C is not intended to be part of this solicitation, and should not be included in Base Schedule Item No. 2.

Q12. Reference: Drawing E 601, Feeder MB# to EMH B 24, Ckt AC 2. Drawings do not indicate a conduit or routing to Emh B 24. What route is the cable to take and what size conduit?

A12. The wire is being pulled through existing 103C conduit. No new conduit is required.

Q13. Reference: Drawing E 605. Please clarify the following:

a. MC 1 – Does this get removed totally?
b. Offices Loop - Same?
c. AC! From EMH A26 to old substation – Same?
d. Bishop Point Circuit – Is the Asbestos only in EMH G1 or is it in all manholes?
e. Back Station Cable Vault – Does it remain in operation? Drawings show existing splices and cables.

A13. The circuits are being removed from the Back Station B-1072 because the Back Station is being demolished. The existing distribution circuits including MC 1, Officers Loop, Bishop Point and others are being intercepted in the manholes as shown on the E-102, E103, E-104, E-601, E-602, E-605, and E-606. The vault below the substation is to remain, but the old cables need to be removed. The Bishop Point asbestos was only observed in the G-1 manhole.

Q14. Reference: Drawing E 502, Details. Please clarify the use of the Thermal Concrete and Fluidized Thermal Backfill. “Typical Duct Detail” Concrete Encased shows a standard back fill material, but the details A thru G indicates the use of thermal concrete and fluidized back fill. What concerns us is the use of the Fluidized Backfill per HECO standards is a concrete slurry mix with no psi rating. One detail shows backfill (dirt) and the other detail shows fluidized material which is a 2.5 sack mix of concrete.

A14. The thermal concrete and fluidized thermal backfill is per the HECO standards as shown in the RFP Attachments. The thermal concrete has a 2500 PSI rating and supersedes the 3000 psi rating for standard concrete as shown in the standard detail 1. The fluidized thermal backfill doesn’t show a PSI rating, but should be no worse than compacted backfill. All concrete encased duct sections should be backfilled with fluidized thermal backfill. See duct Sections A through H. The "Typical Duct Section (Concrete Encased)" is a standard

detail to show duct spacing and is not intended to show that dirt will be used as backfill material for concrete encased ducts.

Q15. NEC requires all PVC conduits to have a ground conductor when the conduits have electrical conductors installed. Please clarify this for us.

A15. No conductors are being provided for the HECO systems. For the 11.5 kV systems, there is a 600V insulated neutral run with the phase conductors. Section 250.180, which is the section in the NEC pertaining to grounding of high voltage systems, does not mention the requirement as stated in the question. The ground conductors mentioned may be applicable to a 600V system.

Q16. Grounding of Manholes and Switchyard, is this required?

A16. Grounding of manholes and substation building is required to be designed and built by the contractor. Grounding of transformer yard will be by HECO.

Q17. Are the Manholes to be coated with a water proof sealant?

A17. Yes

Q18. Who is responsible for the removal of the existing lead cables and Asbestos materials?

A18. Contractor.

Q19. Are the new 11Kv cables required to be Arched and Fire Proof?

A19. Yes.

Q20. If the existing cables fail the Hi Pot test, what provisions are being considered for the delays and re-energizing the affected circuits? Who is responsible for the delays and cost of this issue?

A20. Depending on the individual circumstances, delays and costs related to existing conditions that were not affected or changed by the contractor, can be considered a differing site condition or a changed condition under the terms of the contract specifications.

Q21. Reference: Drawings E 104 through E 109. Options 1 thru 8. Duct bank starts out with 6-5″ and 2 – 6″ conduits but after dwg E 105 it shows 8 – 5″ conduits. Please clarify what is the correct detail?

A21. The drawings are correct. The 6-5″ and 2 – 6″ are only required up to manhole group 41/5I as shown on E-109. From there to Front Station, it is 8-5″C.

Q22. The new PS 2013 and the old TS 2013. What is your position as to when the old substation has to be removed in order for the new switch to be installed? This is a conflict if the new switch has to be in operation before the old unit is taken out of service.

A22. Only a small portion of the new transformer yard overlaps the existing TS 2013 walled compound. The exact schedule needs to be approved by HECO, but it may be possible that this small area may not be affected until later in HECO's stage of construction when the yard wall is actually built.

Q23. Who is responsible for the de-watering of the existing manholes for testing of hazardous materials? Who is performing this test?

A23. Contractor.

Q24. The de-watering of the manholes and trenches. Can the liquids be pumped into the base drainage or sewer system?

A24. No.

Q25. Where can the excavated materials are hauled to?

A25. Non-contaminated soil will be deposited and spread at an on-base site near Kuntz Gate.

Q26. Who is responsible for the contaminated or soiled excavated materials? Along with this, can this be stored on the base?

A26. The contractor will be responsible for off-base disposal of contaminated soil.

Q27. Archeologist Monitor – Is this a full or part time requirement?

A27. Archaeological monitoring will not be the Contractor's responsibility. The Government will be awarding a separate contract for archaeological monitoring.

Q28. HECO Inspector, will he be on site full time or as we need him?

A28. This should be coordinated between Contractor and HECO in accordance with the Statement of Work, Chapter 1, paragraph 1-2.2 which states, "Arrange for HECO inspectors to observe construction in a frequency and manner according to HECO's standards. The Contractor is responsible to ensure the HECO inspector has been contacted and has observed the work."

Q29. Physical Security – Please clarify type of fencing required by the base security forces. If this is other than the normal chain links security fence, please advise as to what brand name you wish us to use.

A29. There is no brand name preference for the fence. The fence provided should meet the minimum requirements in the contract documents.

a.	Civil	Graduate Civil Engineer with 2 years experience in the type of work being performed on this project or technician with 5 years related experience
b.	**Electrical**	**Licensed Professional Electrical Engineer with a minimum of 7 years related experience with 15 kV class substations and distribution systems**
c.	Structural	Graduate Structural Engineer with 2 years experience or person with 5 years related experience
d.	Architectural	Graduate Architect with 2 years experience or person with 5 years related experience
e.	Environmental	Graduate Environmental Engineer with 3 years experience
f.	Submittals	Submittal Clerk with 1 year experience
g.	Concrete, Pavements and Soils	Materials Technician with 2 years experience for the appropriate area

If it is subsequently determined by the Contracting Officer that the minimum contract CQC requirements are not being met, the Contractor may be required to provide additional staff personnel to the CQC organization at no cost to the Government.

3.4.4 Additional Requirement

In addition to the above experience and/or education requirements, the CQC System Manager and any alternates shall have completed the course entitled "Construction Quality Management For Contractors" within the past 5 years. This course is periodically offered at the General Contractors Association of Hawaii.

3.4.5 Organizational Changes

The Contractor shall maintain the CQC staff at full strength at all times. When it is necessary to make changes to the CQC staff, the Contractor shall revise the CQC Plan to reflect the changes and submit the changes to the Contracting Officer for acceptance. Requests shall include the names, qualifications, duties, and responsibilities of each proposed replacement. Upon acceptance of any changes, the Contractor shall revise the CQC plan to accurately reflect the changes. The CQC plan shall be kept current at all times during the life of the contract.

3.5 SUBMITTALS AND DELIVERABLES

Design submittals shall be made as required in Section 01012, DESIGN AFTER AWARD. Construction submittals shall be made as specified in Section 01330, SUBMITTAL PROCEDURES. The CQC organization shall be responsible for certifying that all submittals and deliverables are in compliance with the contract requirements.