

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 0001		3. EFFECTIVE DATE 11-Aug-2011	4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY AFGHANISTAN DISTRICT SOUTH (AES) US ARMY CORPS OF ENGINEERS APO AE 09355		CODE W5J9LE	7. ADMINISTERED BY (If other than item 6) <b>See Item 6</b>	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			5. PROJECT NO.(If applicable) ANA11-008	
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 checked="" 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 <u>1</u> 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.)				
1. Kandaks (West) - Camp Hero, Kandahar Province, Afghanistan. 2. The purpose of this amendment is to answer bidder inquiry questions. A new bid schedule and Section 01010 is provided. Bid due date has not been extended. Date remains 16 August 2011 at 2:00pm local time. 3. New point of contact for Contracting is Mark Jones at mark.t.jones@usace.army.mil.				
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	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		11-Aug-2011

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

**SUMMARY OF CHANGES**

SECTION 00010 - SOLICITATION CONTRACT FORM

The following have been added by full text:

AMEND 001 BID SCHEDULE

**BIDDING SCHEDULE (AMENDMENT 0001)**

The Contractor shall provide a price for all items, including those labeled "Optional Items."

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>Unit Price</u>	<u>AMOUNT</u>
<b>0001</b>	<b>GENERAL</b>				
0001AA	Mobilization/Demobilization	1	LS	XXX	\$ _____
0001AB	Security	1	LS	XXX	\$ _____
0001AC	Site Survey/Existing Conditions Map	1	LS	XXX	\$ _____
0001AD	Geotechnical Investigation	1	LS	XXX	\$ _____
0001AE	As-Built Drawings	1	LS	XXX	\$ _____
<b>0002</b>	<b>SITE DEVELOPMENT/ IMPROVEMENTS</b>				
0002AA	Site Grading and Stormwater Management	1	LS	XXX	\$ _____
0002AB	Water Distribution System	1	LS	XXX	\$ _____
0002AC	Wastewater Treatment Plant	1	LS	XXX	\$ _____
0002AD	Electrical Distribution System	1	LS	XXX	\$ _____
0002AE	Site Communication System	1	LS	XXX	\$ _____
0002AF	Concrete Sidewalks/Fire Lanes	1	LS	XXX	\$ _____
0002AG	Motor Pool Areas	1	LS	XXX	\$ _____
<b>0003</b>	<b>FORCE PROTECTION</b>				
0003AA	Personnel Bunkers	34	EA	\$ _____	\$ _____

<b>0004</b>	<b>FACILITIES-CMU</b>				
0004AA	Small Arms Storage Bldg.	2	EA	\$ _____	\$ _____
0004AB	POL Storage Bldg.	2	EA	\$ _____	\$ _____
<b>0005</b>	<b>FACILITIES (Arch-Span)</b>				
0005AA	NCO Barracks	1	EA	\$ _____	\$ _____
0005AB	Enlisted Barracks	1	EA	\$ _____	\$ _____
0005AC	Combination NCO/Enlisted Barracks	4	EA	\$ _____	\$ _____
0005AD	Large Latrine	4	EA	\$ _____	\$ _____
0005AE	Officers Barracks	2	EA	\$ _____	\$ _____
0005AF	Warehouse/Storage Building	2	EA	\$ _____	\$ _____
0005AG	Battalion Headquarters	2	EA	\$ _____	\$ _____
0005AH	Admin Building	1	EA	\$ _____	\$ _____
0005AJ	Small Officers Barracks	1	EA	\$ _____	\$ _____
0005AK	Vehicle Maintenance Facility	3	EA	\$ _____	\$ _____
0005AL	Training Building	2	EA	\$ _____	\$ _____
0005AM	Classroom Building	2	EA	\$ _____	\$ _____
<b>0006</b>	<b>DBA INSURANCE (CLINs 0001 – 0005)</b>	1	LS	XXX	\$ _____
<p>The amount listed by the offeror on this CLIN is the estimated DBA insurance premium (estimated payroll of the offeror and its subcontractors times the applicable rate(s)). The DBA insurance premium amount varies with payroll and the nature of services and will, therefore, be taken into account during price evaluation of offers. The actual amount paid by the government under this CLIN will be based on the amount of the Rutherford invoice, stamp "paid" and submitted by the offeror after contract award. In the event of recalculation of the premium by CNA based on actual payroll amounts, the contracting officer will adjust this CLIN by contract modification to reflect the actual premium amounts paid.</p>					
<b>0007</b>	<b>REIMBURSEMENT FOR ACTUAL PERFORMANCE AND PAYMENT BONDS PREMIUM</b>	1	LS	XXX	\$ _____ Not to Exceed

	(see schedule note 9 for additional information)				
	<b>TOTAL BASE BID ITEMS</b>				\$ _____
	<b>OPTIONAL BID ITEMS</b>				
<b>0008</b>	<b>Generator Installation</b>				
0008AA	Generator Installation	1	LS	\$ _____	\$ _____
0008AB	DBA Insurance for SUBCLIN 0008AA	1	LS	\$ _____	\$ _____
<p>The amount listed by the offeror on this CLIN is the estimated DBA insurance premium (estimated payroll of the offeror and its subcontractors, multiplied by the applicable rate(s)). The actual amount paid by the government under this CLIN will be based on the amount of the Rutherford invoice submitted by the offeror after contract award. In the event of recalculation of the premium by CNA based on actual payroll amounts, the Contracting Officer will adjust this CLIN by contract modification to reflect actual premium amounts paid.</p>					
<b>0009</b>	<b>Duct-Bank Installation</b>				
0009AA	Duct-Bank Installation	1	LS	\$ _____	\$ _____
0009AB	DBA Insurance for SUBCLIN 0009AA	1	LS	\$ _____	\$ _____
<p>The amount listed by the offeror on this CLIN is the estimated DBA insurance premium (estimated payroll of the offeror and its subcontractors, multiplied by the applicable rate(s)). The actual amount paid by the government under this CLIN will be based on the amount of the Rutherford invoice submitted by the offeror after contract award. In the event of recalculation of the premium by CNA based on actual payroll amounts, the Contracting Officer will adjust this CLIN by contract modification to reflect actual premium amounts paid.</p>					
<b>0010</b>	<b>Switchgear Room Expansion</b>				
0010AA	Switchgear Room Expansion	1	LS	\$ _____	\$ _____
0010AB	DBA Insurance for SUBCLIN 0010AA	1	LS	\$ _____	\$ _____
<p>The amount listed by the offeror on this CLIN is the estimated DBA insurance premium (estimated payroll of the offeror and its subcontractors, multiplied by the applicable rate(s)). The actual amount paid by the government under this CLIN will be based on the amount of the Rutherford invoice submitted by the offeror after contract award. In the event of recalculation of the premium by CNA based on actual payroll amounts, the Contracting Officer will adjust this CLIN by contract modification to reflect actual premium amounts paid.</p>					

<b>0011</b>	<b>Power Generation Expansion I</b>				
0011AA	Power Generation Expansion I	1	LS	\$ _____	\$ _____
0011AB	DBA Insurance for SUBCLIN 0011AA	1	LS	\$ _____	\$ _____
The amount listed by the offeror on this CLIN is the estimated DBA insurance premium (estimated payroll of the offeror and its subcontractors, multiplied by the applicable rate(s)). The actual amount paid by the government under this CLIN will be based on the amount of the Rutherford invoice submitted by the offeror after contract award. In the event of recalculation of the premium by CNA based on actual payroll amounts, the Contracting Officer will adjust this CLIN by contract modification to reflect actual premium amounts paid.					
<b>0012</b>	<b>Power Generation Expansion II</b>				
0012AA	Power Generation Expansion II	1	LS	\$ _____	\$ _____
0012AB	DBA Insurance for SUBCLIN 0012AA	1	LS	\$ _____	\$ _____
The amount listed by the offeror on this CLIN is the estimated DBA insurance premium (estimated payroll of the offeror and its subcontractors, multiplied by the applicable rate(s)). The actual amount paid by the government under this CLIN will be based on the amount of the Rutherford invoice submitted by the offeror after contract award. In the event of recalculation of the premium by CNA based on actual payroll amounts, the Contracting Officer will adjust this CLIN by contract modification to reflect actual premium amounts paid.					
<b>0013</b>	<b>Sanitary Sewer Force Main</b>				
0013AA	Sanitary Sewer Force Main	1	LS	\$ _____	\$ _____
0013AB	DBA Insurance for SUBCLIN 0013AA	1	LS	\$ _____	\$ _____
	<b>TOTAL OPTIONAL BID ITEMS</b>				\$ _____
	<b>SCHEDULE TOTAL:</b>				\$ _____

### SCHEDULE NOTES

1. Solicitation is subject to availability to funds.
2. Offeror shall submit prices on all items. Scope of work on each item is described in Section 01010.
3. Only one contract for the entire schedule will be awarded under this solicitation. This project will be awarded as a single contract.

4. EVALUATION OF OPTIONS: The award will be made to the lowest, responsive and responsible bidder. For pricing purposes the Government will evaluate both the Base Proposals and Option Proposals. The Government is not obligated to exercise the options.
5. EXERCISE OF OPTIONAL BID ITEMS: Optional bid items (if any) may, at the option of the Government, be added to the contract at any time within 180 calendar days after receipt of the notice to proceed.
6. Design costs shall consist of design analysis, drawings, and specifications for all facilities where a standard design has not been provided by the Government. All costs associated with the design shall be paid for under the bid item in which the design is associated.
7. ORDER of WORK: See Section 00150.
8. PERIOD OF PERFORMANCE AND LIQUIDATED DAMAGES: See Section 00150 for performance schedule. Period of performance is defined as the number of calendar days from receipt of notice to proceed. The Period of performance will not be extended if optional items are exercised. Liquidated Damages are included in this contract. See FAR Clause 52.211-12.
9. Notwithstanding the Contract Clause entitled "Payments Under Fixed-Price Construction Contracts," the Contractor shall not be reimbursed an amount which exceeds the dollar amount set forth in **bid item 0007**.
10. Abbreviations:

LM = Linear meters  
SM = Square meters  
EA = Each  
LS = Lump Sum  
m<sup>2</sup> = square meters  
kPa = kilopascals  
m = meters  
cm = centimeters  
l = liters  
kVA = kilo volt amps

**-END OF SECTION-**

AMEND 1 MAJOR CHANGES

## AMENDMENT 0001 MAJOR CHANGES

## BID SCHEDULE:

A new bid schedule has been provided.

All work associated with Sub-CLIN 0002AF (Road Network) has been removed.

All work associated with Sub-CLIN 0002AG (Parking Areas) has been removed.

All work associated with Sub-CLIN 0002AK (HLZ Expansion) has been removed.

Previous Sub-CLIN 0002AH (Concrete Sidewalks/Fire Lanes) is now Sub-CLIN 0002AF.

Previous Sub-CLIN 0002AJ (Motor Pool Areas) is now Sub-CLIN 0002AG.

## Section 01010:

Section 2.2.7 (Road Network), 2.2.8 (Parking Areas) and 2.2.11 (Helicopter Landing Zone Expansion) have been removed.

Table 3.1 has been revised.

The following have been deleted:

BID SCHEDULE

## SECTION 00800 - SPECIAL CONTRACT REQUIREMENTS

The following have been added by full text:

AMEND 1 Q & A**Amendment 0001 Bidder Inquiry Questions and Answers  
Solicitation No.: W5J9LE-11-B-0006**

1. Page 1 of the Design Concepts Documents (Section 00555, 1.0) indicates, "This section identifies documents issued with this IFB which establish the concept or basis for the project design. These requirements are minimum standards and may be exceeded by the Offeror. Deviations from these concepts and standards may be approved if considered by the Government to be in its best interests. The extent of development of these requirements in no way relieves the successful Offeror from the responsibility of completing the design, construction documentation, and construction of the facility in conformance with applicable criteria and codes. Design drawings and all technical specifications are provided to the contractor as part of this contract of all facilities. Site work and related areas require design. This specification only applies to this site design."

Question: Will the contractor be responsible for the facility designs provided in the Appendix or will the contractor only be responsible to construct the facilities provided in the Appendix and any site adaptations?

Answer: The Contractor shall not be responsible for the building design if the design is provided in the Appendix and Section 01010 does not require any changes to the design. Refer to Section 01010 for any items in which the contractor is required to design.

2. Section 2.2.4 of the Scope of Work (Section 01010) indicates, “The contractor shall design and construct an expansion of the existing Waste Water Treatment Plant.”

Question: Please provide the existing population served by the existing WWTP as well as all as-built drawings, design analysis and O&M peak flow data.

Answer: All information available for the WWTP has been provided. The contractor shall gather all information necessary for the WWTP expansion design.

3. Section 2.2.7 of the Scope of Work (Section 01010) indicates, “The road layout shall provide ease of access to entrance points, buildings, loading ramps and docks, vehicle maintenance facilities, fuel points, trash collection points, grease traps, oil/water separators, convoy assembly area, etc. Roads shall be able to withstand 20 ton, 5-axle vehicles. A storm drainage system shall also be included. The main access and all main traffic shall be 8m wide (4m per lane) asphalt paving.”

Question: The Master Plan (sheet C-02) does not indicate any roads or drainage systems and graphically depicts only a limited number of driveways to Helicopter Landing Zone and Motor Pools (1110 & 1510). Are there other Road Network items that are not shown on sheet C-02 that are required?

Answer: See Answer 26.

4. Section 2.2.8 of the Scope of Work (Section 01010) indicates “The Contractor shall design and construct aggregate parking to individual facilities based on the Concept Plan and on the parking requirements for each facility.”

Question: The Master Plan (sheet C-02) does not indicate any parking areas other than the Motor Pools (1110 & 1510). Are there other Parking Areas that are not shown on sheet C-02 that are required?

Answer: Paragraph 2.2.8 has been deleted. No parking spaces are required other than the Motor Pool parking spaces under paragraph 2.2.10. **The BID SCHEDULE has been revised due to the deletion of this work.** CLIN 0002AG for Parking Area has been removed from the bid schedule and is now for MOTOR POOL AREAS work.

5. Section 2.2.9 of the Scope of Work (Section 01010) indicates, “The Contractor shall design and construct fire lanes that are a minimum of 3.0 m wide and shall be designed to accommodate the existing fire trucks on base.”

Question: Please confirm that fire lanes are required to be designed to support the existing fire trucks and their turning radius. If the fire lanes are to be designed for the existing fire trucks then

provide the existing fire truck minimum turning radius, height, weight and pavement design criteria for the fire lanes.

Answer: Yes the contractor shall construct fire lanes to support the existing fire trucks. The contractor shall collect all information from Camp Hero to design for the existing fire trucks. All concrete fire lanes shall be 150 mm thick concrete with appropriate base and subbase materials.

6. Section 2.3 of the Scope of Work (Section 01010) indicates, “The Contractor shall design and construct force protection measures required in this Section and Section 01015. The designer shall incorporate force protection setbacks for new facilities to maximum extent possible as permitted by size of the site.”

Question: The Master Plan (sheet C-02) does not appear to have adequate standoff distance from the existing road running east west directly south of the two classroom buildings (B004). Typical standoff distances per UFC 4-010-01 is 10 to 25m depending on the occupancy type of the facility. Are the standoff distances shown on sheet C-02 considered to be designed to the maximum extent possible or is the Contractor responsible to increase the standoff to comply with the UFC?

Answer: For all facilities the contractor shall make all attempts to comply with standoff distances per UFC guidance, if space is limited, these requirements can be waived by USACE. The Concept Plans are for conceptual purposes only, the final designs are the responsibility of the contractor, but all designs must be approved by USACE and meet the intent as shown on the Concept Plans.

7. Section 2.4.2 of the Scope of Work (Section 01010) indicates, “The Contractor shall construct one (1) POL Storage Building. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.”

Question: The 01010 conflicts with the Master Plan (sheet C-02) graphically shows two POL buildings and calls out two POL buildings on the List of Facilities (B1511 and B1108). Table 3-1 of section 3.0 of the 01010 also only indicates one POL. Please confirm that two POL buildings are required.

Answer: The Contractor shall construct two (2) POL buildings. See amended bid schedule and Section 01010.

8. Section 3.0 of the Scope of Work (Section 01010) table 3-1 indicates that one Small Latrine Building is required.

Question: Table 3-1 conflicts with the content of the 01010 section 2.5 as well as the Master Plan (sheet C-02). Please confirm that NO Small Latrine Buildings are required.

Answer: No Small Latrine Buildings are required, only the Large Latrine Buildings per paragraph 2.5.4.

9. Section 3.0 of the Scope of Work (Section 01010) table 3-1 indicates that five Training Buildings are required.

Question: Table 3-1 conflicts with the content of the 01010 section 2.5.11 as well as the Master Plan (sheet C-02). Please confirm that two Training Buildings are required.

Answer: The Contractor shall construct two (2) training buildings.

10. Section 3.0 of the Scope of Work (Section 01010) table 3-1 indicates that three Small Arms Storage Buildings are required.

Question: Table 3-1 conflicts with the content of the 01010 section 2.4.1 as well as the Master Plan (sheet C-02). Please confirm that two Small Arms Storage Buildings are required.

Answer: The Contractor shall construct two (2) small arms buildings.

11. Section 3.0 of the Scope of Work (Section 01010) table 3-1 indicates that one Motor Pool Area is required.

Question: Table 3-1 conflicts with the content of the 01010 section 2.2.10 as well as the Master Plan (sheet C-02). Please confirm that two Motor Pool Areas are required.

Answer: The contractor shall construct two (2) motor pool areas.

12. Section 2.2.5 of the Scope of Work (Section 01010) indicates, "The system shall be looped to provide the minimum disruption to operations by a fault on any single portion of the system."

Question: The Master Plan sheets show only a single duct bank that is not looped. The duct bank ranges from 2 to 8 six inch PCV conduits. Do we need to provide for literally double the length to be looped or will the single duct bank be sufficient to meet the requirements stated above.

Answer: The following sentence has been deleted "The system shall be looped to provide the minimum disruption to operations by a fault on any single portion of the system."

13. Section 2.2.5 of the Scope of Work (Section 01010) indicates, "Concrete sidewalks and fire lanes shall be required as shown on attached drawings and shall be designed and constructed based upon recommendations from geotechnical analysis as required herein. The Contractor shall design and construct a network of concrete sidewalks to connect the buildings. Sidewalks shall be wide enough to be used as occasional service roads. The Contractor shall design and provide minimal landscaping for the compound. Provide outdoor benches, lighting, and gathering areas. The Contractor shall design and construct fire lanes that are a minimum of 3.0 m wide and shall be designed to accommodate the existing fire trucks on base. For emergency access, each building shall have fire lanes on a minimum of three sides. A sidewalk may be used as a fire lane is the sidewalk is a minimum of 3.0 m wide."

Question: These are new requirements for almost all the sidewalks to be 3m wide and capable of being fire lanes. Additionally we are now required to provide minimal landscaping, lighting and outdoor benches. Is this correct?

Answer: The following sentence has been deleted "The Contractor shall design and provide minimal landscaping for the compound. Provide outdoor benches, lighting, and gathering areas." The Contractor is required to design and construct fire lanes per paragraph 2.2.9.

14. Section 2.6.4 of the Scope of Work (Section 01010) indicates, “The Contractor shall be responsible for six 4 new fuel tanks for the four (4) new generators.”

Question: Confirm that 4 fuel tanks are required.

Answer: The Contractor shall install four (4) new fuel tanks under paragraph 2.6.4.

15. Section 2.6.4 of the Scope of Work (Section 01010) indicates, “The contractor shall procure, install, and connect four (4) 1.25MVA step-up transformers compatible with the existing generators and the existing medium voltage distribution system. Contractor shall provide all electrical and mechanical facilities necessary for proper operation of the facilities to accommodate for eight (8) operating generators.”

Question: Will the contractor be responsible to provide the cubicles and/or circuit breakers.

Answer: The contractor is responsible for all aspects associated with the work to provide a fully functioning system.

16. Section 2.6.5 of the Scope of Work (Section 01010) indicates “The Contractor shall be responsible for six 5 new fuel tanks for the four (5) new generators.”

Question: Confirm that 5 fuel tanks and 5 new generators are required?

Answer: The contractor shall be responsible for 5 new fuel tanks and 5 new generators under paragraph 2.6.5.

17. Section 2.6.5 of the Scope of Work (Section 01010) indicates “Contractor shall procure, install, and connect five (5) 1.25MVA step-up transformers compatible with the existing generators and the existing medium voltage distribution system. Contractor shall provide all electrical and mechanical facilities necessary for proper operation of the facilities to accommodate for six (6) operating generators.”

Question: Will the contractor be responsible to provide the cubicles and/or circuit breakers?

Answer: See answer 15.

18. Section 2.2.5 of the Scope of Work (Section 01010) indicates, “The electrical distribution system shall connect to the existing Camp Hero power plant as shown on the Concept Plan in the Appendix. The system shall be looped to provide the minimum disruption to operations by a fault on any single portion of the system.”

Question: Will the contractor be responsible to provide the cubicles and/or circuit breakers for this connection or are the breakers existing?

Answer: See answer 15, the breakers are not existing.

19. Section 2.6.5 of the Scope of Work (Section 01010) indicates, “Contractor shall procure, install and test one 15kV, 200A feeder circuit breaker for installation in the existing spare feeder breaker cubicle”.

Question: Will the contractor be responsible to provide the cubicles and/or circuit breakers?

Answer: See answer 15.

20. Would you please provide asphalt road cross-section properties?

Answer: See Answer 26.

22. Would you please clarify whether CSB on C-02 Concept Plan stands for Corps Support Battalion which is stated at 01010 Scope of Work/Section 2.6.6.Sanitary Sewer Force Main section?

Answer: Yes, CSB stands for Corps Support Battalion.

23. Would you please determine which kind of HVAC equipment is required for the Switchgear Room Expansion stated at section 01010 Scope of Work/2.6.3 Switchgear Room Expansion?

Answer: A unitary packaged AC unit with electric heat. Unit shall be sized to maintain at a cooling temperature of 23.5C (75F) dry bulb and 50% relative humidity and a heating temperature of 20C (68F). The unit shall be constructed for use with 380 volts, 3-phase, 50 hertz power. The unit shall be constructed with head pressure control to operate with the ambient air temperature down to -17.8C (0F). The amount of outside air shall be based on 0.03 L/S (0.06 CFM) per square foot of switch gear room area. The supply and return shall be ducted. The manufacturer shall furnish a low voltage space thermostat that provides two stages of cooling and two stages of heating control with a switching sub base that includes fan on-auto, system heat-off-cool switches. Outside air intake hood shall be complete with bird screen and 50mm thick cleanable filter media. The unit shall be mounted outside on a house keeping pad, located in a fenced in area to prevent theft or vandalism. Exterior ductwork shall have weatherproofing. The wall penetration for the ductwork, shall be sealed and weatherproof.

24. In section 01010 Scope of Work/2.6.4 Power Generation Expansion I part it states; "The Contractor shall be responsible for six 4 new fuel tanks for the four (4) new generators." Would you please determine number of new fuel tanks, six or four?

Answer: See Answer 14.

25. In section 01010 Scope of Work/2.6.5 Power Generation Expansion II part it states; "The Contractor shall be responsible for six 5 new fuel tanks for the four (5) new generators." Would you please determine number of new fuel tanks, six or five?

Answer: See Answer 16.

26. Would you denote locations of road networks and parking areas on C-02 Concept Plan? If their design is in scope of Contractor's work, would you please determine approximate quantities of these items?

Answer: Paragraph 2.2.7 "Road Network" has been deleted. No roads are required as part of this project. Due to this change, **the BID SCHEDULE has been revised.**

27. Would you please specify whether generators, given in section 01010 Scope of Work/2.6.1 Generator Installation, require new fuel tanks or will the contractor construct new fuel lines to connect generators to existing fuel tanks?

Answer: The contractor's responsibility for paragraph 2.6.1 does not include installation of new tanks. The Contractor is responsible for all other aspects of work to provide a fully functioning system.

28. In section 01010 Scope of Work;

2.6.1 Generator Installation and 2.6.3 Switchgear Room Expansion states; "Equipment shall be the same manufacturer, model, and ratings as the existing switchgear."

2.6.4 Power Generation Expansion I states; "...of the same model and manufacturer as the existing generators."

Would you please identify, what is the manufacturer, model and rating of the existing switchgear and what is the model and manufacturer of the existing generators?

Answer: The contractor shall investigate and determine all model and manufacturer's of existing equipment.

29. Referring to section 01010, scope of work, Para 2.2.5, please advise if the contractor shall design and build a new separate loop feed medium voltage cable from the existing power plant to supply power to the distribution transformers or shall use the existing medium voltage cable to supply power to them.

Answer: See Answer 12.

30. Referring to bid schedule Sub-CLIN 0002AF (Road network): It seems the existing roads are paved except access road to Helipads which is very small. Can this be associated with Helipad itself, please instruct

Answer: See Answer 26.

31. Referring to bid schedule Sub-CLIN 0002AG (Parking Areas): No parking area is indicated in the concept plan, could you please specify.

Answer: See Answer 4.

**32. Section 00150 item 1.1 "PROPOSAL PHASE", states "The proposals to be submitted include a Management/Technical Proposal and a Cost/Price Proposal". Can you help explain the statement in the Technical package?**

**Answer. This statement is language typically included in Request for Proposals (RFPs) and should not have been included in this IFB. A technical package is not required to be submitted with your bid. Paragraph 1.1 "PROPOSAL PHASE" has been removed from Section 00150.**

(End of Summary of Changes)

**SECTION 01010  
SCOPE OF WORK  
(10 AUGUST 2011)**

**1. GENERAL**

The project consists of the design and construction of an Afghan National Army Compound at Camp Hero, Kandahar Province, Afghanistan. The garrison project consists of new Transient Kandak, QRF Kandak, Engineering Kandak, Infantry Kandaks, and other common facilities for the brigade including all support facilities, utilities and infrastructure as applicable.

The project includes buildings and facilities that shall be constructed using full design arch-span type construction methods the Appendix and full design standard drawings for facilities CMU type construction located in the of this IFB. The project is defined as the design, materials, labor, and equipment to construct buildings, roads, utilities, and other infrastructure to accommodate a garrison with a design-end population of approximately 1,000 personnel.

The Contractor may be required to coordinate the efforts required under this contract with at least one other contractor at the site. Such coordination is required as part of this contract. The coordination effort may be significant and may include such tasks as the exchange of information with other contractors such as design data, drawings, calculations, and technical information. Additionally, it may be necessary for the contractor to conduct meetings, hold teleconferences, and prepare the submittal of additional information to the Contracting Officer (KO) that demonstrates the coordination and integration of new work with existing and future work of other contractors. All coordination shall be in agreement with the KO and approved prior to the commencement of any work.

All buildings and facilities must be constructed and become operational following the Construction Priority List specified in the Section 01010. All buildings and facilities are categorized in four (4) priorities. Refer to Section 7, Completion of Work, for general requirements and for the priority listing of buildings and facilities as shown in Table 7.1, Construction Priorities Schedule.

**1.1 ENGLISH LANGUAGE REQUIREMENT**

All information shall be presented in English. The Contractor shall have a minimum of one English-speaking representative to communicate with the COR at all times when work is in progress.

**1.2 CQM TRAINING REQUIREMENT**

The Contractor's Quality Control (QC) Manager is required to complete the U.S. Army Corps of Engineers (USACE) Construction Quality Management (CQM) course, or equivalent, as soon as available. The CQM course will be offered periodically by the USACE Afghanistan Engineer District (AES). If the QC Manager has not completed the course, then he shall apply for the first available class after the award of the contract. Additional approved CQM courses include those offered by the Commercial Technical Training Center (in Jalalabad) and the Champion Technical Training Center (in Kabul). The Quality Assurance Branch of the AES can provide information related to AES offerings of the CQM course, as well as contact information for training centers. Alternative CQM courses, other than those mentioned above, must be approved by the Quality Assurance Branch.

The Contractor's quality control plan, as defined in USACE Guide Specification 01451, entitled "Contractor Quality Control" (CQC), shall include "The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function." For the QC Manager, qualifications must include a certificate demonstrating completion of an approved CQM course. In lieu of a certificate, provide date of enrollment for the next CQM course.

**1.3 SUBMITTALS REQUIREMENTS**

Submittals and a Submittal Register are required as specified in Section 01335 of the Basic Contract.

**1.4 COST ESTIMATE REQUIREMENTS**

The Contractor shall prepare a parametric construction cost estimate for AES data collection purposes. The Contractor shall prepare a thorough, well-supported, estimate reflecting the final design features, construction

schedule, conditions, and any construction prioritizing requirements. The cost estimate shall be submitted as part of the 100% design submittal.

## **1.5 LOCATION**

All work under this task order is for the Afghanistan National Army 205<sup>th</sup> Brigade Garrison Kandaks (West) - Camp Hero in Kandahar Province, Afghanistan. The approximate geographical location of the project is:

Longitude: 65d 52m 11s E

Latitude: 31d 28m 45s N

This information is also indicated in the Concept Plan in the Appendix.

## **1.6 GENERAL REQUIREMENTS FOR FACILITIES**

All requirements set forth in the Scope of Work (01010), but not included in the Technical Requirements (01015), shall be considered as set forth in both and vice versa.

In general, this project consists of designing and constructing site improvements and constructing facilities as described in this Section, the Concept Plan, standard design arch-span type and CMU type building designs attached in the Appendix, floor plans and the requirements stated in Section 01015 - Technical Requirements.

In case of any discrepancy between Section 01010 and Section 01015, Section 01010 takes precedence. The USACE construction representative shall be notified immediately of any inconsistencies discovered in this solicitation.

All standard construction amenities such as underground utilities, site grading, plumbing, heating, and electrical, etc. shall be implied as a design and construction requirement.

All construction of the Standard Building designs identified in the Appendix of this solicitation shall be done in strict accordance with the plans furnished, with no changes made to any feature of work shown in these design drawings, unless otherwise specified.

The Contractor shall match existing on-site architectural materials and colors. All construction shall be done in the same style and paint schemes as existing buildings, respective of sustainable construction and design except as indicated. Construction shall provide for institutional (detention) grade vandal-resistant fixtures and valves in showers, toilets, and lavatories. All toilets shall be eastern style and shall face north or south.

The Contractor shall provide boot scrapers for boot cleaning at all building ingress/egress points.

Barracks shall be spaced as far apart from each other as possible given the final site design configuration, as to minimize sound propagation and to increase privacy.

The Contractor shall provide potable water, toilets, ablution areas, electrical, and communications service backbone in buildings as specified, connecting to and integrating with existing systems and shall be responsible for installing all upgrades. Specification of equipment and materials that match stocked items by the facility or central Department of Public Works is highly desirable. The Contractor shall reference the Appendices for building-specific construction details.

All materials and equipment shall be standard product of a manufacturer regularly engaged in the manufacture of the product and shall duplicate items that have been in satisfactory use for at least 2 years prior to bid opening.

The interior communications infrastructure shall provide a pathway to all communications outlets and head-end equipment located in the building. Communications head-end equipment, cabling, RJ45 jacks, and faceplates shall be provided by others. See standard design drawings for facility communications requirements. The design and construction of the systems shall be in accordance with the references and the requirements contained herein and in Section 01015.

All other design work not specifically identified in this solicitation shall be the responsibility of the Contractor and it shall be submitted for review in accordance with Section 01335 of this solicitation.

### **1.6.1 LIFE SAFETY**

The facilities shall comply with all other safety requirements as required within references. A fire sprinkler system is not required. The Contractor shall equip buildings with wall-mounted A-B-C 6 kg fire extinguishers at a 1:100 SM density (minimum). Exit signs shall be placed above doors opening to the exterior and labeled in English, Dari, and Pashto. The Contractor shall install hardwired smoke detectors to provide local alarm only. Install carbon monoxide (CO) monitors in large occupancy areas (15 SF per person or greater occupant density) and sleeping areas. . These CO monitors/alarms shall be hardwired for reliability and to prevent pilferage. For other requirements, refer to Section 01015.

### **1.6.2 LIGHTING**

General lighting shall be provided for each building type and function within each building, in accordance with standard drawings in the Appendices. For any design build features that contractor shall adhere to the requirements in Section 01015.

### **1.6.3 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)**

Environmental control of the facilities shall be achieved by natural ventilation, mechanical ventilation, and heating per the standard drawings in the Appendices. Cooling shall be provided in only specified rooms of specified buildings. In the case of design build facilities, for inside design conditions and air cooling and heating requirements for various spaces, see Section 01015.

## **1.7 UNEXPLODED ORDINANCE (UXO)/ MINES**

The Contractor **IS NOT** responsible for the clearance or removal of mines and unexploded ordnance (UXO) from the site prior to the commencement of construction. The site has been cleared to a depth of 1.0 m (40") and the certificate of clearance is available for review. No construction activities are to be conducted without review of the written clearance certification for the site. If sub-surface construction activities will be performed on this site the clearance certification must state that the clearance depth was conducted to a minimum 1.0 m (40") in depth.

NOTE 1: For previous UXO/mine information, and a copy of the clearance certification the following points of contact from the UN Mine Action Center of Afghanistan are provided:

Mohammad Sediq, Chief of Operations,  
Email: [sediq@unmaca.org](mailto:sediq@unmaca.org)  
Cell: +93 070 295207

Hansie Heymans, Chief Information Officer,  
Email: [hansie@unmaca.org](mailto:hansie@unmaca.org)  
Cell: +93 070 294286

Ron Cates, or current UXO Safety Specialist  
UXO Safety/ Demining COR, USACE  
[tas.uxo.safety@usace.army.mil](mailto:tas.uxo.safety@usace.army.mil)  
Comm: 540-667-6359  
Roshan: 079-467-3891

NOTE 2: For construction in excess of 1.0 m (40") in depth on areas previously cleared. If the contract parameters for sub-surface construction exceed the minimum 1.0 m (40") clearance depth the Contractor **WILL** be responsible for clearance to these depths.

The Contractor may only provide clearance/removal services via UN Mine Action Center for Afghanistan (UNMACA) accredited entities and Clearance/removal may only be undertaken in accordance with International Mine Action Standards (IMAS), Afghanistan Mine Action Standards (AMAS), and applicable U.S. Army Corps of Engineer (USACE) Ordnance & Explosives (OE) safety standards.

The Contractor will provide a standard UXO/Demining safety work plan to the US Army Corps of Engineers UXO / Demining COR for review prior to commencement of all UXO clearance/demining activities on the project sites. Once the UXO/ Demining clearance has concluded, the Contractor shall provide the US Army Corps of Engineers

UXO / Demining COR a clearance certificate for review and approval before any construction activities are to commence.

NOTE 3: The Contractor should be aware that many areas demined by NGOs and other groups may have only been cleared to a depth of 130 mm (5") for humanitarian purposes. If construction will take place, a minimum of 1.0 m (40") in depth is mandatory.

It is the responsibility of the Contractor to be aware of the risk of encountering UXO/mines and to take all actions necessary to assure a safe work area to perform the requirements of this contract. The Contractor assumes the risk of any and all personal injury, property damage or other liability arising out of or resulting from any Contractor action taken hereunder. The Contractor and its subcontractors may not handle, work with, move, transport, render safe, or disarm any UXO/mine, unless they have appropriate accreditations from the MAC.

If a UXO/mine is encountered during project construction, the Contractor shall immediately stop work in the affected area, mark the area of the UXO/Mine and immediately notify the Contracting Officer, COR or the Government Construction Representative. UXO/Mine disposal will not be the responsibility of the Contractor unless the area exceeds the 1.0 m (40") clearance depth of the original clearance certificate.

## **2. SUMMARY OF WORK**

All arch-span type facilities shall be constructed following the standard construction drawings identified in the Appendix. All design and construction shall follow the requirements stated in Section 01015 - Technical Requirements. The USACE construction representative shall be notified immediately of any inconsistencies discovered in this solicitation.

All work including data collection, design, construction, equipment purchase, equipment installation, studies, and surveys as described in this Section 01010 of the solicitation shall be accomplished by the Contractor unless otherwise stated.

### **2.1 GENERAL**

#### **2.1.1 MOBILIZATION / DEMOBILIZATION**

Mobilization and Demobilization shall consist of all labor, equipment, supplies and facilities required to stage all equipment and facilities needed for construction of this project. See Contract Clauses for more information.

The Contractor shall install temporary access points and roads, temporary parking, construction lay-down areas, and foot paths with compacted base, appropriately graded for drainage, and cover with a well graded crushed stone aggregate surface capable of withstanding the anticipated construction traffic. At a minimum, the Contractor shall place 50 mm of crushed, well-graded, and compacted aggregate over areas to be used for drainage, pedestrian circulation (not including foot paths), and/or dust control.

Portable latrines: During construction, the Contractor shall furnish and install portable latrine units in locations as required. Portable latrines shall be a mix of western and eastern style units. Mix shall be determined by Contracting Officer.

Portable lavatories: During construction, the Contractor shall furnish and install handwash units in locations as required. Handwash units shall each include four (4) wash units. Each wash unit shall consist of a basin, foot controlled wash water dispenser, hand soap dispenser, and towel dispenser.

Mobilization/Demobilization shall have a unit measurement of lump sum and paid for under bid items 0001AA, Mobilization/Demobilization, of the Proposal Schedule (Section 00100).

#### **2.1.2 SECURITY**

Security is critical to construction in Afghanistan, especially on roads and remote areas away from Coalition Force bases. The Contractor must have an appropriate amount of security/protection to match the threat in the project area and along the supply routes. A detailed security plan in accordance with Section 01040 SECURITY shall be approved by the Government before construction notice to proceed.

The Contractor shall be responsible for physical security of all materials, supplies, and equipment of every description, including property which may be Government-furnished or owned, for all areas occupied jointly by the Contractor and the Government, as well as for all work performed.

Security shall have a unit of measure lump sum and paid for under bid items 0001AB, Security, of the Proposal Schedule (Section 00100).

### **2.1.3 SITE SURVEY / EXISTING CONDITIONS MAP**

The site survey and existing conditions map shall consist of all labor, equipment and supplies necessary to produce the topographical data in accordance with the requirements specified in Sections 01015 and 01335.

Site Survey and Existing Conditions Map shall have a unit of measure lump sum and be paid for under bid items 0001AC, Site Survey/Existing Conditions Map, of the Proposal Schedule (Section 00100).

### **2.1.4 GEOTECHNICAL INVESTIGATION**

Existing geotechnical information is not available at the project site. Any site-specific geotechnical data required to develop foundations, fill at elevated slabs, materials, earthwork, roads, and other geotechnical related design and construction activities for this project shall be the Contractor's responsibility.

The geotechnical report shall contain the results of a geotechnical investigation conducted in accordance with the requirements specified in Section 01015. All labor, equipment and supplies necessary to conduct a geotechnical investigation shall be considered a part of the geotechnical report.

Foundations, including sub-grade, are based on an assumed soil bearing value for standard building designs. The Contractor shall construct the foundations per the standard drawings unless the bearing capacity of the soil is less than the bearing capacity assumed in Section 01015, in which case the Contractor shall design and construct foundations for standard designs and facilities based on recommendations from geotechnical investigation.

The Geotechnical Investigation shall have a unit of measure lump sum and be paid for under bid items 0001AD, Geotechnical Investigation, of the proposed schedule.

### **2.1.5 AS-BUILT DRAWINGS**

The Contractor shall provide the Government with complete as-built drawings at the conclusion of the project. The bid item "As-Built Drawings" shall consist of all labor, equipment, and all supplies needed to produce design records, documents and drawings in accordance with the requirements specified in Section 01335 and 01780A.

The As-built Drawings shall have a unit of measure lump sum and paid for under bid items 0001AE, As-Built drawings, of the Proposal Schedule (Section 00100).

## **2.2 SITE DEVELOPMENT/IMPROVEMENTS**

### **2.2.1 DEMOLITION**

The Contractor shall remove and dispose of all debris, trash, CONEXs, concrete, buildings, existing utilities (above or below ground), fuel tanks, HESCO baskets, and foundations. The Contractor shall be responsible for locating and paying all fees associated with removal and relocation of all debris and shall verify the location of debris disposal with the Contracting Officer. Scrap metal and CONEXs on site shall be moved to an area away from the site perimeter as directed by the COR and left for the host government to salvage. Demolished fencing and concertina wire shall be neatly rolled up and used fence posts and outriggers shall be neatly stockpiled for reuse by the host government.

There will be no separate measurement or payment for demolition and the costs associated with any demolition work shall be accounted for by the Contractor in the bid item for which the demolition is associated.

## **2.2.2 SITE GRADING AND STORMWATER MANAGEMENT**

The Contractor shall design and construct all site grading and stormwater management features for the project site. Site grading and stormwater management features shall conform to the requirements and references specified herein for development of the facility. The Contractor shall design and submit a Site Grading and Drainage Plan showing the location of all required drainage structures.

The Grading and Drainage Plan shall indicate the existing and proposed contour lines, the location of drainage structures and the direction of flow. Spot elevations shall be indicated at the beginning and the end of all drainage structures and inflexion points and they shall be spaced every 25 m along the alignment. Proposed contour lines shall meet with existing contour lines on the Grading and Drainage Plan. The Grading and Drainage Plan shall be at a scale that all lines and structures can be easily seen and ascertained.

Culverts at perimeter wall penetrations shall have personnel access denial system(s).

The side slopes of all new earthen storm drainage (including canals, trenches, ditches, swales, etc) shall have preferably a slope no greater than 1 Vertical to 3 Horizontal. For side slopes at a greater slope, the drainage features must be lined with a stone and mortar finish or concrete to prevent erosion.

Native crushed stone 100 mm thick shall be placed around all buildings, from the building wall or building landscaping out 2.0 m and all areas of anticipated foot or vehicle traffic to reduce erosion and to provide dust control.

The site grading and stormwater management shall have a unit of measure lump sum and paid for under bid items 0002AA, Site Grading and Drainage, of the Proposal Schedule (Section 00100).

## **2.2.3 WATER DISTRIBUTION SYSTEM**

The Contractor shall design and construct an underground pipe distribution system to all buildings and features requiring water supply that ties into the existing water supply system. The water system shall be designed and constructed in accordance with the AED Design Requirements, latest version. See Section 01015 for design and construction criteria. Water demand required for fire fighting and for irrigation and landscaping needs shall not be included in design demand calculations.

The Water Distribution System shall have a unit of measure lump sum and paid for under bid items 0002AB, Water Distribution System, of the Proposal Schedule (Section 00100).

## **2.2.4 WASTEWATER TREATMENT PLANT**

The Contractor shall design and construct an expansion to the existing Waste Water Treatment Plant. The Contractor shall design and construct the expansion as a parallel Wastewater Treatment Plant per the requirements of Section 01015. The WWTP shall be a partial mix aerated lagoon type system and shall be located to minimize the use of lift stations and shall utilize gravity sewers as much as possible. The Waste Water Treatment Plant shall be designed and constructed such that the system shall not be flooded by a 25-year storm event and shall include considerations for potential flooding events originating upstream. The Contractor shall expand the existing WWTP with the addition of parallel aeration basins, settling ponds and expanding the headworks to split flows between the existing system and the new components. The Contractor shall design and construct the Wastewater Treatment Plant to include additional sludge drying beds and shall tie in to the existing effluent outfall. The contractor shall confirm that the existing effluent outfall has the capacity for the additional flows from the parallel WWTP train expansion. If undersized based on the increased flows, the existing effluent outfall shall be upgraded accordingly with minimal interruption to the existing WWTP.

Design capacity for the WWTP expansion is 469,000 liters per day. Approximate location of the proposed WWTP and lagoon are indicated on the Concept Plan attached in the Appendix of this solicitation.

The WWTP shall have a unit of measure lump sum and paid for under bid items 0002AC, Waste Water Treatment Plant, of the Proposal Schedule (Section 00100).

### **2.2.4.1 WASTEWATER COLLECTION SYSTEM**

The Contractor shall design and construct a sanitary sewer collection system for all new facilities in this proposal that ties into the existing sewer collection system on site. The contractor shall confirm that the existing system has the capacity for the additional flows from the proposed sewer collection expansion. Any lines that are undersized based on the increased flows shall be upgraded accordingly with minimal interruption to the existing services.

Sanitary sewer collection system shall be designed and constructed by contractor. Collection system includes all piping, manholes, cleanouts, and appurtenances required to provide service to all facilities requiring it. See Section 01015.

The Wastewater Collection System shall be paid for under bid items 0002AC, Waste Water Treatment Plant, of the Proposal Schedule (Section 00100).

### **2.2.5 ELECTRICAL DISTRIBUTION SYSTEM**

The Contractor shall design and construct a complete, 15kV primary medium-voltage underground electrical distribution system in accordance with the requirements of Section 01015. The electrical distribution system shall connect to the existing Camp Hero power plant as shown on the Concept Plan in the Appendix. The secondary distribution system shall be 3-Phase, 220/380V, 50Hz. The Contractor shall provide switchgear, oil-filled outdoor transformers, cable and any other equipment necessary for a fully functioning electrical distribution system. The electrical distribution system shall be designed and installed as described in Section 01015.

Contractor shall design and construct a 2 x 6" duct bank, including necessary manholes and handholes, from the Camp Hero Power Plant to the area of the new Camp Hero West Expansion and install cabling to provide medium voltage service to the new loop to provide electrical service to the buildings to be constructed.

The Electrical Distribution System shall have a unit of measure lump sum and be paid for under bid items 0002AD, Electrical Distribution System, of the proposed schedule.

### **2.2.6 SITE COMMUNICATATION SYSTEM**

The Contractor shall design and construct the exterior communications infrastructure. The exterior communications infrastructure shall connect to the existing communications infrastructure on Camp Hero. The Contractor shall construct all duct banks, handholds, manholes etc. The Contractor shall not install wiring or optic fiber for the external site communication system. The communications duct bank shall run to all facilities requiring communications system connectivity. See standard design drawings for facility communications requirements. The design and construction of the exterior communications infrastructure shall be in accordance with the references and the requirements contained herein and in Section 01015.

The Site Communication System shall have a unit of measure lump sum and be paid for under bid items 0002AE, Site Communication System, of the Proposal Schedule (Section 00100).

### **2.2.7 ROAD NETWORK**

**Not Used.**

### **2.2.8 PARKING AREAS**

**Not Used.**

### **2.2.9 CONCRETE SIDEWALKS/FIRE LANES**

Concrete sidewalks and fire lanes shall be required as shown on attached drawings and shall be designed and constructed based upon recommendations from geotechnical analysis as required herein.

The Contractor shall design and construct a network of concrete sidewalks to connect the buildings. Sidewalks shall be wide enough to be used as occasional service roads.

The Contractor shall design and construct fire lanes that are a minimum of 3.0 m wide and shall be designed to accommodate the existing fire trucks on base. For emergency access, each building shall have fire lanes on a minimum of three sides. A sidewalk may be used as a fire lane if the sidewalk is a minimum of 3.0 m wide. All concrete sidewalks shall be 150 mm in thickness.

The Concrete Sidewalks shall have a unit of measure lump sum and be paid for under **bid items 0002AF**, Concrete Sidewalks, of the Proposal Schedule (Section 00100).

## **2.2.10 MOTOR POOL AREAS**

The Contractor shall design and construct Motor Pool Areas in coordination with the facilities required in this solicitation. There shall be two (2) Motor Pool areas, varying in sizes and number of facilities contained within each area, as indicated in the Concept Plan attached in the Appendix.

Each Motor Pool Area shall be enclosed by a 3.0 m high chain link fence with Y-channel and triple strand concertina wire and two (2) lockable double swing arm vehicle gates and two (2) lockable personnel gates. The grade shall slope away from the fence for at least 5 meters and shall be kept a minimum of 3.0 m below the top of the fence for a distance of 10 m. The Contractor shall construct the fence and gates per the standard design drawings attached in the Appendix.

All motor pools shall be designed and constructed with 150 mm of aggregate surface compacted to 100% maximum density above 150 mm scarified fill compacted to 95% maximum density. Allow adequate vehicle maneuver space to access all parking and facilities.

Exterior pole-mounted lighting along the fence line shall be provided to provide illumination for night-time operations and safe movement of vehicles within the motor pool compound. The Contractor shall construct light poles per the details in the Appendix.

The Motor Pool Areas shall have a unit of measure lump sum and be paid for under **bid items 0002AG**, Motor Pool Areas, of the Proposal Schedule (Section 00100).

## **2.3 FORCE PROTECTION**

The Contractor shall design and construct force protection measures required in this Section and Section 01015. The designer shall incorporate force protection setbacks for new facilities to maximum extent possible as permitted by size of the site.

### **2.3.1 PERSONNEL BUNKERS**

The Contractor shall construct thirty-four (34) Personnel Bunkers per the standard drawings in the Appendix. The contractor shall verify all standards for size and quantities and place bunkers for optimal locations on the site plan in relationship to personnel requirements. The Contractor shall follow standard construction drawings attached in the Appendix– titled “Personnel Bunkers”.

The Bunkers shall have a unit of measure per each and paid under bid items 0003AA, Personnel Bunkers, of the Proposal Schedule (Section 00100).

## **2.4 FACILITIES - CMU**

### **2.4.1 SMALL ARMS STORAGE BUILDING**

The Small Arms Storage building shall be of a CMU type construction following the standard construction drawings attached in the Appendix– titled “Small Arms Storage”.

There shall be a total of two (2) Small Arms Storage buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

Each Small Arms Storage building shall include the following:

- a. Provide wooden racks for storing long-arm weapons vertically. Racks shall not be furnished with locking bars.

- b. The facility will be enclosed with a 3.0 m high fence and a secure entranceway.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

Small Arms Storage Buildings shall have a unit of measure per each and be paid under bid item 0004AA, Small Arms Storage Bldg., of the Proposal Schedule (Section 00100).

## **2.4.2 PETROLEUM, OIL, AND LUBRICANTS (POL) STORAGE BUILDING**

The POL Storage Building shall be of a CMU type construction following the standard construction drawings attached in the Appendix– titled “POL Storage”.

The Contractor shall construct two (2) POL Storage Building. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The POL Storage Building shall have a unit of measure lump sum and paid under bid items 0004AB, POL Storage Bldg., of the Proposal Schedule (Section 00100).

## **2.5 FACILITIES (ARCH-SPAN)**

### **2.5.1 NON-COMMISSIONED OFFICERS (NCO) BARRACKS**

The NCO Barracks building shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “NCO Barracks - Large”.

There shall be a total of one (1) NCO Barracks building. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The NCO Barracks shall have a unit of measure per each and shall be paid for under items 0005AA, NCO Barracks, of the Proposal Schedule (Section 00100).

### **2.5.2 ENLISTED BARRACKS**

The Enlisted Barracks building shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Enlisted Barracks”.

There shall be a total of one (1) Enlisted Barracks building. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Enlisted Barracks shall have a unit of measure per each and shall be paid for under items 0005AB, Enlisted Barracks, of the Proposal Schedule (Section 00100).

### **2.5.3 COMBINATION NCO/ENLISTED BARRACKS**

The Combination NCO / Enlisted Barracks building shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Combination NCO Enlisted Barracks”.

There shall be a total of four (4) Combination NCO / Enlisted Barracks buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Combination NCO/Enlisted Barracks shall have a unit of measure per each and shall be paid for under items 0005AC, Combo NCO/Enlisted Barracks, of the Proposal Schedule (Section 00100).

#### **2.5.4 LARGE LATRINE BUILDING**

The large Latrine/Laundry Building shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Latrine - Large”.

There shall be a total of four (4) Large Latrine Buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

All toilets shall be Eastern Style and shall face North–South.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Contractor shall provide three (3) 5.0 m long Clothesline units at each large latrine building, following the standard construction drawings attached in the Appendix.

The Large Latrine shall have a unit of measure per each and shall be paid for under bid item 0005AD, Large Latrine Building, of the Proposal Schedule (Section 00100).

#### **2.5.5 OFFICERS BARRACKS**

The Officers Barracks building shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Officers Barracks - Large”.

There shall be a total of two (2) Officers Barracks buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Officers Barracks shall have a unit of measure per each and shall be paid for under bid item 0005AE, Officers Barracks, of the Proposal Schedule (Section 00100).

#### **2.5.6 WAREHOUSE/STORAGE BUILDING**

The warehouse/storage building shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Storage Building”.

There shall be a total of two (2) Warehouse/Storage buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Warehouse/Storage Building shall have a unit of measure per each and shall be paid for under bid items 0005AF, Warehouse/Storage Building, of the Proposal Schedule (Section 00100).

#### **2.5.7 BATTALION HEADQUARTERS BUILDINGS**

The Battalion Headquarter building shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Headquarters Building”.

There shall be a total of two (2) Battalion Headquarters buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The contractor shall design build and construct a backup power generator system that is independent of the garrison power plant for the battalion headquarters in emergencies. The contractor shall ensure that the power generator system will accommodate the facilities power needs. The backup power generator system shall provide fuel storage

for the generators with a capacity of 48 hours of continuous generator runtime along with an electrical distribution system to the facility. The generators, fuel storage, and distribution system shall be furnished by the Contractor.

The contractor shall provide 3 flagpole structures for each Battalion Headquarters Building, as indicated in the standard construction drawings attached in the Appendix.

The Battalion Headquarter Buildings shall have a unit of measure per each and shall be paid for under bid item 0005AG, Battalion Headquarters, of the Proposal Schedule (Section 00100).

## **2.5.8 ADMINISTRATION BUILDING**

The Administration building shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Admin Building”.

There shall be a total of one (1) Administration building. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Administration Buildings shall have a unit of measure per each and shall be paid for under bid items 0005AH, Admin Building, of the Proposal Schedule (Section 00100).

## **2.5.9 SMALL OFFICERS BARRACKS**

The Small Officers Barracks building shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Officers Barracks - Small”.

There shall be a total of one (1) Small Officers Barracks buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Small Officers Barracks shall have a unit of measure per each and shall be paid for under bid item 0005AJ, Small Officers Barracks, of the Proposal Schedule (Section 00100).

## **2.5.10 VEHICLE MAINTENANCE FACILITY**

The Vehicle Maintenance building shall be design build of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Vehicle Maintenance Building”.

There shall be a total of three (3) Vehicle Maintenance buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

Additionally the design shall comply with the requirements of Section 01015 and follow the following programming standards:

- a. There shall be four, 200 mm diameter by 1,000 mm high concrete filled steel bollards adjacent to each roll up door on the interior and exterior of the building.
- b. There shall be a concrete hardstand apron outside all garage doors at a minimum 10 m width. Concrete hardstand apron shall support a minimum loading of a 3-axle, 30,000 kg vehicle without failing. There shall be at least 18 m clear distance around the vehicle maintenance building before any parking or between any other facilities.
- c. Emergency eye-wash stations shall be provided for each building or for every two (2) maintenance bays, as applicable.
- d. Battery rooms shall have emergency eyewash stations and one (1) acid resistant sink.
- e. An air compressor shall be located outside and to the rear of the building under a canopy and enclosed in a security with gate.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Vehicle Maintenance Facility shall have a unit of measure per each and shall be paid for under bid item 0005AK, Vehicle Maintenance Facility, of the Proposal Schedule (Section 00100).

### **2.5.11 TRAINING BUILDING**

The Training buildings shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Training Building”.

There shall be a total of two (2) Training Buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Training Building shall have a unit of measure per each and shall be paid for under bid item 0005AL, Training Building, of the Proposal Schedule (Section 00100).

### **2.5.12 CLASSROOM BUILDING**

The Classroom buildings shall be constructed of an arch-span type construction following the standard construction drawings attached in the Appendix – titled “Classroom Building”.

There shall be a total of two (2) Training Classroom buildings. The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site.

The Contractor shall coordinate the construction of this facility based on the Construction Priority List, Table 3-1 in this Section. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The Classroom Building shall have a unit of measure per each and shall be paid for under bid item 0005AM, Classroom Building, of the Proposal Schedule (Section 00100).

## **2.6 OPTIONAL ITEMS**

All work required to complete option items under this contract shall be completed within 180 calendar days including Government review time from Notice-to-Proceed (NTP) for option items.

### **2.6.1 GENERATOR INSTALLATION**

The Contractor shall install, connect, and test two (2) Government Furnished (GF) 1MW Generator Sets currently on-site on the existing concrete pads in the Power House. The Contractor shall procure, install, and test two Generator Switchgear cubicles in the existing switchgear line-up. Equipment shall be physically, mechanically, and electrically compatible with, and of the same ratings as, the existing switchgear. Contractor shall expand the synchronizing capability of the existing synchronizing panel to permit fully synchronized operation eight (8) installed generators, with provision for expanding synchronization capability to the maximum of twenty-two (22) installed generators, at the conclusion of the Project. Contractor shall procure, install, and connect two (2) 1.25MVA step-up transformers compatible with the existing generators and the existing medium voltage distribution system. Contractor shall procure, install and test one 15kV, 200A feeder circuit breaker for installation in the existing spare feeder breaker cubicle.

The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The installation of the GF generator sets shall have a unit of measure per lump sum and shall be paid for under items 0008AA, Generator Installation, of the Proposal Schedule (Section 00100).

### **2.6.2 DUCT-BANK INSTALLATION**

The Contractor shall design and construct a duct-bank of 6” PVC conduits, concrete encased, from the existing Power Plant to the near end of the future wadi bridge to the RMTC Compound Construction Site, using the Southern and Eastern routing as described and indicated on the Concept Plans labeled, “Duct Bank Concept Plan (Option Item), drawings in the Appendix.

The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

If this option item is exercised, the duct bank in paragraph 2.2.5 shall be replaced with the duct bank of this option item, refer to the Concept Plans labeled, "Duct Bank Concept Plan (Option Item), in the Appendix.

The installation of the duct-bank shall have a unit of measure per lump sum and shall be paid for under items 0009AA, Duct-Bank Installation, of the Proposal Schedule (Section 00100).

### **2.6.3 SWITCHGEAR ROOM EXPANSION**

The Contractor shall design, procure and construct an expansion of the existing switchgear room to the west of the existing. The Contractor shall relocate and upgrade equipment as necessary to allow for the expansion of the switchgear room and powerhouse, including the load bank, secondary supply transformer, and powerhouse supply panel. The Contractor shall extend the existing switchgear pad and wiring trough to allow for a minimum of twenty-four (24) installed generator cubicles, two (2) bus tie cubicles, two (2) metering and control cubicles, and twelve (12) feeder breaker positions. The Contractor shall relocate the existing battery charger and battery rack to the east end of the room to allow expansion of the switchgear feeders on the existing pad. Contractor shall expand or replace the existing battery system as necessary.

The Contractor shall procure, install, connect, and test nine (9) additional Generator Switchgear cubicles in the existing switchgear line-up and on the new pad. Equipment shall be physically, mechanically, and electrically compatible with, and of the same ratings as, the existing switchgear. Connection between the existing switchgear bus and the new switchgear bus may be by cable or solid copper bus bar, at the Contractor's discretion. Contractor shall expand the synchronizing capability of the existing synchronizing panel to permit fully synchronized operation of the nine (9) newly installed generators with the existing eight (8), with provision for expanding synchronization capability to the maximum of twenty-four (24) installed generators, at the conclusion of the Project. Contractor shall connect and test the cables from the nine (9) new generators and complete all synchronization and capacity testing.

HVAC shall be designed and constructed by the contractor and shall consist of a unitary packaged AC unit with electric heat. Unit shall be sized to maintain at a cooling temperature of 23.5C (75F) dry bulb and 50% relative humidity and a heating temperature of 20C (68F). The unit shall be constructed for use with 380 volts, 3-phase, 50 hertz power. The unit shall be constructed with head pressure control to operate with the ambient air temperature down to -17.8C (0F). The amount of outside air shall be based on 0.03 L/S (0.06 CFM) per square foot of switch gear room area. The supply and return shall be ducted. The manufacturer shall furnish a low voltage space thermostat that provides two stages of cooling and two stages of heating control with a switching sub base that includes fan on-auto, system heat-off-cool switches. Outside air intake hood shall be complete with bird screen and 50mm thick cleanable filter media. The unit shall be mounted outside on a house keeping pad, located in a fenced in area to prevent theft or vandalism. Exterior ductwork shall have weatherproofing. The wall penetration for the ductwork, shall be sealed and weatherproof.

The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The expansion of the switchgear room shall have a unit of measure per lump sum and shall be paid for under items 0010AA, Switchgear Room Expansion, of the Proposal Schedule (Section 00100).

### **2.6.4 POWER GENERATION EXPANSION I**

The Contractor shall design, procure, and construct an extension to the existing power generation building to provide four (4) installed generators of 1 MW each. New generators shall be capable of being interfaced with the existing Synchronizing System using the existing Generator software package. Refer to the Concept Plan in the Appendix for the general location of the existing Power Plant. The Contractor shall design and construct the generation building extension to include eight (8) generator pads, four (4) for the new generators and four (4) for future generators. The contractor shall procure, install, and connect four (4) 1.25MVA step-up transformers compatible with the existing generators and the existing medium voltage distribution system. Contractor shall provide all electrical and mechanical facilities necessary for proper operation of the facilities to accommodate for eight (8) operating generators. The Contractor shall be responsible for four (4) new fuel tanks for the four (4) new generators. Each fuel tank shall have a 98000 liter (25,880 gal) capacity. The Contractor shall utilize the existing

fuel tanks pads in the existing fuel tank containment area. Facilities shall include but are not limited to; all new and expanded electrical panels and sub-panels, motor control centers (MCC), lighting, fans and ducts. Provision shall be made for the relocation of the existing Black Start generator to the end of the expanded power house. Contractor shall install medium voltage cables from the new transformers to the existing switchgear positions.

The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The expansion of the generation gallery shall have a unit of measure per lump sum and shall be paid for under items 0011AA, Power Generation Gallery Expansion – Phase I, of the Proposal Schedule (Section 00100).

## **2.6.5 POWER GENERATION EXPANSION II**

The Contractor shall design, procure and construct an extension to the existing power generation building to provide five (5) installed generators of 1 MW each. New generators shall be capable of being interfaced with the existing Synchronizing System using the existing Generator software package. Refer to the Concept Plan in the Appendix for the general location of the existing Power Plant. The Contractor shall design and construct the power generation building to include six (6) generator pads, five (5) for new generators and one (1) for a future generator. Contractor shall procure, install, and connect five (5) 1.25MVA step-up transformers compatible with the existing generators and the existing medium voltage distribution system. Contractor shall provide all electrical and mechanical facilities necessary for proper operation of the facilities to accommodate for six (6) operating generators. The Contractor shall be responsible for five (5) new fuel tanks for the five (5) new generators. Each fuel tank shall have a 98000 liter (25,880 gal) capacity. The Contractor shall utilize the existing fuel tanks pads in the existing fuel tank containment area or, if required, provide new fuel pads and fuel containment area to accommodate the new generators. Facilities shall include but are not limited to; all new and expanded electrical panels and sub-panels, motor control centers (MCC), lighting, fans and ducts. Provision shall be made for the relocation of the existing Black Start generator to the end of the expanded power house. Contractor shall install medium voltage cables from the new transformers to the existing switchgear positions.

The Contractor shall refer to the Concept Plan for the location of this facility type in relationship to other buildings and facilities on site. All materials, finishes, and equipment shall comply with the requirements of Section 01015.

The expansion of the generation gallery shall have a unit of measure per lump sum and shall be paid for under items 0012AA, Power Generation Gallery Expansion – Phase II, of the Proposal Schedule (Section 00100).

## **2.6.6 SANITARY SEWER FORCE MAIN**

The Contractor shall design and construct a sewer main, gravity or force main, to convey sewage from the existing Corps Support Battalion (CSB) lift station to the existing WWTP on site. Refer to Appendix A for the location of the existing lift station and WWTP.

The force main shall be designed and constructed by the contractor. Collection system includes all piping, manholes, cleanouts, and appurtenances required to provide service to all facilities requiring it. See Section 01015.

The force main shall have a unit of measure per lump sum and shall be paid for under items 0013AA, Sewage Force Main, of the Proposal Schedule (Section 00100).

## **3. COMPLETION OF WORK**

The order of construction for all buildings and facilities shall be prioritized. The contractor shall construct in accordance with the Construction Priority Schedule and the requirements specified in Section 00150, Design/Build Process.

All work required under this contract shall be completed within 550 calendar days including Government review time from Notice-to-Proceed (NTP) for site work.

All work under this contract shall be completed and buildings ready for beneficial occupancy in accordance with the Construction Priority Schedule. The Required Period of Performance is stated in Days following the NTP, as described in the Table 3-1 below:

**Table 3-1 Construction Priorities Schedule**

<b>PRIORITY 1: 228 Days Completion from NTP</b>		
<b>SUMMARY</b>	<b>SITE WORK AND FACILITIES</b>	<b>UNITS</b>
<b>Infrastructure &amp; Utilities</b>	Geotechnical Investigation	1
	Road Network	1
	Site Grading and Drainage	1
	Water Distribution System	1
	Wastewater Treatment Plant	1
	Electrical Distribution System	1
	Site Communication System	1

<b>PRIORITY 2: 360 Days Completion from NTP</b>		
<b>SUMMARY</b>	<b>FACILITIES TO BE CONSTRUCTED</b>	<b>UNITS</b>
<b>Kandaks</b>	Officers Barracks	2
	Small Officers Barracks	1
	NCO Barracks	1
	Combo NCO/Enlisted Barracks	4
	Enlisted Barracks	1
	Large Latrine Building	4
	Personnel Bunkers	34

<b>PRIORITY 3: 450 Days Completion from NTP</b>		
<b>SUMMARY</b>	<b>FACILITIES TO BE CONSTRUCTED</b>	<b>UNITS</b>
<b>Common Facilities</b>	Battalion HQ Building	2
	Training Building	2
	Classroom Building	2
	Admin Building	1

<b>PRIORITY 4: 550 Days Completion from NTP</b>		
<b>SUMMARY</b>	<b>FACILITIES TO BE CONSTRUCTED</b>	<b>UNITS</b>

<b>Other Facilities</b>	Vehicle Maintenance Facility	3
	Warehouse/Storage Building	2
	Small Arms Storage Bldg.	2
	POL Storage Bldg.	2
	Motor Pool Areas	2
	Concrete Sidewalks/Fire Lanes	1
	Parking Areas	1

**END OF SECTION**