

| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT   |  |                                  |  | 1. CONTRACT ID CODE | PAGE OF PAGES   |
|--|--|----------------------------------|--|---------------------|---|
| 2. AMENDMENT/MODIFICATION NO.<br>0002  |  | 3. EFFECTIVE DATE<br>29-Apr-2012 | 4. REQUISITION/PURCHASE REQ. NO.                               |                     | 5. PROJECT NO.(If applicable)<br>PAPW040702AP         |
| 6. ISSUED BY<br>AFGHANISTAN DISTRICT NORTH (AEN)<br>US ARMY CORPS OF ENGINEERS<br>OPERATION ENDURING FREEDOM<br>APO AE 09355   |  | CODE<br>W5J9JE                   | 7. ADMINISTERED BY (If other than item 6)<br><b>See Item 6</b> |                     | CODE  |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)  |  |                                  |  | X                   | 9A. AMENDMENT OF SOLICITATION NO.<br>W5J9LE-12-R-0051 |
|  |  |                                  |  | X                   | 9B. DATED (SEE ITEM 11)<br>09-Apr-2012                |
|  |  |                                  |  |                     | 10A. MOD. OF CONTRACT/ORDER NO.                       |
|  |  |                                  |  |                     | 10B. DATED (SEE ITEM 13)                              |
| CODE   |  | FACILITY CODE                    |  |                     |   |
| 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS  |  |                                  |  |                     |   |
| <input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input 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:<br>(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;<br>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.)  |  |                                  |  |                     |   |
| Afghan National Civil Order Police 2/3 Patrol Battalion Muqur District, Badghis Province<br><br>The purpose of this amendment is to:<br>Replace Appendix B (Site Assessment) in its entirety with the attached Appendix B (Site Assessment).<br>Replace attached Scope of Work Section 01010.<br>Replace Concept Site Plan - Appendix A-1.<br>Technical questions answered from prospective offerors for informational purposes only.  |  |                                  |  |                     |   |
| Proposal due date remains the same 12 May 2012 at 4:00 pm Kandahar time<br>Point of contact is Clairice Dingle at Clairice.m.dingle@usace.army.mil   |  |                                  |  |                     |   |
| SEE CONTINUATION SHEETS  |  |                                  |  |                     |   |
| 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                                      |
| _____<br>(Signature of person authorized to sign)  |  |                                  | BY _____<br>(Signature of Contracting Officer)                 |                     | 29-Apr-2012   |

## SECTION SF30 BLOCK 14 CONTINUATION PAGE

### SUMMARY OF CHANGES

#### SECTION 00010

#### TECHNICAL QUESTIONS

1. The Scope (SOW) calls for wooden stove for heating the building but the drawings are provided for Electrical heaters, Question: which one is preferred? If wood stove, whose is the responsibility for providing the stoves?

**Answer:** Per the Appendix Drawings - Electrical unit heaters shall be provided at all locations. Also, see Section 01010 Paragraph 5.11 regarding Wood Stove Heaters.

2. The Admin Building (S-1) is not included in the drawing package, Question: Could you please instruct?

**Answer:** Refer to Section 01010 Paragraph 2.5.1. Standard drawings for the Administration Building are included in Appendix A-1

3. Can you tell me where this RFP site location is? I'm trying to decide on my best course of action and I need to hash out the logistics of the jobs before I move forward. I see it's listed in the Muqur District of Badghis Province however that doesn't show up on Google Earth. Any information you can give me will be much appreciated.

**Answer:** The site is located in Muqur District, Badghis Province, Afghanistan, as shown in Appendix B. The coordinates of its boundaries are located in Section 01010 Paragraph 1.1.

4. According to the Site Assessment survey report, Total site area is approximately (158,856.2 Sq. M), if we look to the concept site plan for this project the work limit and construction area is smaller than the Site assessment site plan. Could you please clarify that, should we price for UXO/Mine Clearance, Site preparation, Geo technical report, and others, according to the Site assessment site plan or the Concept site plan for this project? for clarification of UXO/Mine Clearance.

**Answer:** For UXO Mine Clearance, please refer to Section 01010 Paragraph 2.1.2.1; For Requirements of the Geotechnical Report please refer to Section 01010 Paragraph 2.2.2 and Section 01015 Paragraph 2.4.1. and for Requirements of Site Preparation, please refer to Section 01010 Paragraph 2.3 and Section 01015 Paragraph 2.2. Finally, please read the above sections in its entirety and submit your proposal accordingly if you wish to do so.

5. Request total length of Perimeter Stonewall as the site plan has no dimensions nor does the Proposal call out total distance in meters.

**Answer:** Please see revised Concept Plan in Appendix A-1

6. Request total length of asphalt road and width and thickness specifications as the Site plan shows no dimensions.

**Answer:** Please see revised Concept Plan in Appendix A-1

7. Need total length of Chainlink fencing as the site plan nor the proposal have any Measurements in meters.

**Answer:** Please see revised Concept Plan in Appendix A-1

**SECTION 01010  
SCOPE OF WORK**

**1.0 PROJECT REQUIREMENTS**

This project consists of the design and construction of site improvements and construction of facilities to support the Afghanistan National Police (ANP) program for one (1) Afghan National Civil Order Police (ANCOP) Compound serving a population of approximately five-hundred (500) personnel, to be located in Badghis Province, Afghanistan. This project is defined as the management, planning, design, material, labor, and equipment, to site adapt and construct all utilities, vehicular access, buildings, force protection measures, site security, de-mining activities, and all other features as required herein.

The Work within this contract shall be designed and constructed in accordance with the most recent editions of building and life safety codes, force protection requirements and security standards and other references as listed in 01015 Technical Requirements. A partial listing of references is included herein:

IBC, International Building Codes

NFPA 101, Life Safety Codes

UFC 4-010-01, DoD Minimum Anti-Terrorism Standards for Buildings

Standard Design drawings are provided in appendices (see Appendices A respectively). All Work shall be performed in accordance with the Standard Design drawings except as specifically indicated in this RFP.

**1.1 LOCATION**

The site is located in Badghis Province, Afghanistan, as shown on the attached site assessment. The coordinates of it boundaries are:

| Corner | Latitude (N) | Longitude (E) | MRGS              |
|--------|--------------|---------------|-------------------|
| 1      | 35.091843    | 63.092101     | 41S NU 0839583232 |
| 2      | 35.095689    | 63.097405     | 41S NU 0887883659 |
| 3      | 35.091063    | 63.096939     | 41S NU 0883683146 |
| 4      | 35.089919    | 63.095709     | 41S NU 0872483019 |
| 5      | 35.090760    | 63.092989     | 41S NU 0847683112 |

**1.2 ENGLISH LANGUAGE REQUIREMENT**

All information shall be presented in English. The Contractor shall have a minimum of one English-speaking representative present to communicate with the Contracting Officer's Representative (COR) at all times when work is in progress.

**1.3 SUBMITTALS**

Submittals and a Submittal Register are required as specified in Section 01335.

**1.4 CQM TRAINING REQUIREMENT**

Refer to Section 01451 Contractor Quality Control for Construction Quality Management (CQM) Training requirements.

**1.5 GENERAL REQUIREMENTS**

The ANCOP Patrol Battalion compound shall have a design population of five-hundred (500) persons.

Design and construct all facilities and other features in accordance with the government provided Standard Design drawings, Section 01015, and all applicable references herein. Standard Design items may require design

adaptations to meet site conditions; these adaptations shall be designed and constructed in accordance with all requirements herein, and shall be submitted for approval.

In case of any discrepancy between Section 01010 Scope of Work and 01015 Technical Requirements, the 01010 Scope of Work takes precedence. The COR shall be notified immediately of any inconsistencies discovered in this RFP. All requirements set forth in this Section, but not included in the Technical Requirements and/or drawings, shall be considered as set forth in both and vice versa.

Verify all provided dimensions and all existing conditions described in the Request for Proposal and Appendices prior to the start of any construction. The Contractor is highly encouraged to verify existing site conditions before submitting proposals.

All standard construction amenities such as underground utilities, site grading, electrical, communication, detailing etc. shall be implied as design and construction requirements.

The Contractor is encouraged to use Afghan labor and subcontractors to the maximum extent possible commensurate with technical, security or other requirements or necessary considerations. The intent of this Contract is also to use locally procured materials and labor to the maximum extent possible, but this does not allow the Contractor to make changes to the Government-provided drawings, specifications or design analysis, except where specifically indicated herein.

Any standard that can be determined to be substantially equivalent to the standards specified in this document may be used, but it is the Contractor's responsibility to show the equivalency of the alternate standard. Reviewable documentation must be provided to the KO for approval prior to use; no part of any time lost due to such actions shall be made the subject of claim for extension of time, excess costs, or damages by the Contractor.

Window screens shall not be provided, with exceptions as indicated herein.

The finish of wet room walls and floors (including all rooms of the Latrine(s), and all rooms of the Dining Facility), shall be either sealed concrete or sealed concrete masonry units (CMU), per the construction as detailed in the Standard Design drawings. Wall tile and floor tile, as shown in the Standard Design drawings, shall be omitted.

### **1.5.1 LIFE SAFETY REQUIREMENTS**

Fire sprinkler systems are not required. Install hardwired smoke detectors per the requirements referenced herein; fire alarm control panels are not required. Wall-mounted A-B-C 6kg fire extinguishers shall be provided and installed for every 100 square meters of floor space in each building. The facilities shall comply with all other safety requirements as required within the Standard Design drawings and applicable references.

## **2.0 SUMMARY OF WORK**

### **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. Requirements for mobilization and temporary structures are set forth in 01015 Technical Requirements and 01060 Special Requirements.

#### **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 being issued a Clearance For Construction.

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.

The Contractor shall provide perimeter force protection security for the developing site. Security may include, but is not limited to, a perimeter fence and private security guards. Perimeter security shall prevent unauthorized site access and provide safety protection to the Contractor work force and government personnel for the duration of the project. The Contractor is solely responsible for security; however, local police shall be coordinated with regarding security.

### 2.1.2.1 UNEXPLODED ORDINANCE (UXO) REMOVAL AND CLEARANCE

Contractor IS responsible for initial clearance/removal.

The Contractor shall search for, identify and clear all mines and unexploded ordnance (UXO) from the entire site as indicated on the concept site plan with the inclusion of 20 meters from the perimeter road. The contractor may only provide clearance/removal services via UN Mine Action Center for Afghanistan (UNMACA) accredited entities, and clearance shall be accomplished to the anticipated foundation depth as indicated in the contract. If sub-surface construction activities are to be performed on this site the minimum clearance depth will be 1 meter. Sub-surface clearance for construction activities in excess of 1 meter as defined by the contract parameters will also be the responsibility of the contractor. Clearance by definition is an investigation and clearance of all sub-surface metallic anomalies on the site. 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. When mines and/or UXO's are identified, the Contractor shall place them in a location in accordance with IMAS/AMAS/USACE until destruction of the items can take place. Construction work shall not occur inside the safety exclusion zone based on the most probable munitions (MPM) expected on the site. Construction will not commence in any area that has not been cleared to the specified depth.

**The contractor will provide a standard UXO/Mine Clearance safety work plan to the US Army Corps of Engineers UXO / Mine Clearance COR for review prior to commencement of all UXO/mine clearance activities on the project sites. Once the UXO/ Mine Clearance has concluded, the contractor shall provide the US Army Corps of Engineers UXO / Mine Clearance COR a clearance certificate for review and approval before any construction activities are to commence.**

*NOTE 1:* The USACE does not need written clearance certificate approval from the UNMACA to approve the construction start activities. However, the contractor is responsible for providing a copy of the clearance certificate to the UNMACA for entry into their country wide database. A final signed copy of the UNMACE certificate must then be provided to the USACE UXO/Mine Clearance COR.

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 under the IMAS/AMAS from the UNMACA.

If a UXO/mine is encountered after a UNMACA-approved clearance certificate is provided to the Government, UXO/mine disposal shall be handled in accordance with Section 01015, Technical Requirements.

*NOTE 2:* Point of Contact for UXO/Mine Clearance Safety Work Plan review and approval shall be directed to the US Army Corps of Engineers Mine Clearance Safety/COR:

UXO Safety/ Mine Clearance COR, USACE

[tas.uxo.demining.safety@usace.army.mil](mailto:tas.uxo.demining.safety@usace.army.mil), Roshan:079-403-1452 Comm:540-723-6129

## 2.2 DESIGN PROGRAM

### 2.2.1 SITE SURVEY

The Site Survey shall consist of all labor, equipment and supplies necessary to produce the topographical and other data in accordance with the requirements specified in Sections 01015 and 01335.

## **2.2.2 GEOTECHNICAL REPORT**

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.

## **2.2.3 A/E DESIGN**

A/E (Architectural/Engineering) Design shall consist of all labor, equipment and supplies required to furnish a completed project design in accordance with the requirements specified herein, and in Section 01015 and Section 01335.

### **2.2.3.1 MASTER PLAN**

The Contractor shall prepare a programmatic Master (Site) Plan, designed to include all requirements required herein. The Master Plan shall include all locations of construction office/storage containers, lay-down and construction debris removal area. The development of the master plan will include participation in a charrette that will be conducted at the Corps of Engineers Area or Resident Office administering the contract, if deemed necessary by the Government. The charrette shall be scheduled to occur within ten (10) calendar days of Notice to Proceed. The programmatic Master Plan shall be submitted to the Government no later than thirty (30) days after Notice to Proceed.

Development of the compound contained within the Perimeter Security Wall should utilize the most suitable land for construction, and shall be planned in accordance with the Concept Site Plan. Facilities shall not be located in wadis or dry river beds. The sidewalk network as illustrated on the Concept Site Plan shall be modified so that sidewalks are located to connect to building entrances.

The proposed costs of the Master Plan shall be included as part of the line item "A/E Design" in the 00100 Bid Schedule.

## **2.2.4 RECORD DRAWINGS**

Record Drawings shall consist of all labor, equipment and supplies required to produce Record (As-Built) Drawings in accordance with the requirements specified in Section 01335 and 01780A.

## **2.3 SITE DEVELOPMENT**

### **2.3.1 SITE PREPARATION**

The Contractor shall demolish and dispose all existing site structures, vegetation, debris, concrete, utilities, foundations and structures, at the site prior to commencement of new work.

### **2.3.2 SITE GRADING AND STORMWATER MANAGEMENT**

Site grading and drainage features shall conform to the requirements and references specified in the 01015 Technical Requirements. All drainage shall be conveyed off site; stormwater retention is not permitted as a drainage solution.

**The Contractor shall be aware that potentially there will be a large amount of cut, fill, and grading on this project to mitigate stormwater/flooding issues and shall bid accordingly. All grading and infrastructure quantities are to be determined by the Contractor.**

**The overall site maximum slope shall not exceed 5%, therefore, terracing or retaining walls may be required. Terraces require erosion control measures and shall have a maximum slope of 1V:3H.**

**NOTE:** The Contractor shall be aware that there are several 'wadis' and drainage pathways through the site that must be accounted for in the drainage plan. The drainage plan shall be in accordance with all requirements in Section 01015.

### **2.3.2.1 MITIGATION OF ONSITE WADIS**

Contractor shall grade the site, or design and construct via engineered means, to divert surface rainwater (stormwater) around the compound as water flows from the elevated areas in the surrounding areas of the compound to the existing wadi on the opposite side of the compound.

The proposed costs of this item shall be included as part of the line item "Site Grading and Stormwater Management" in the 00010 Bid Schedule.

### **2.3.3 WELL**

Drill and construct one water Well, to a minimum depth of 150m, and a maximum depth of 200 m, in accordance with Section 01015.

### **2.3.4 POTABLE WATER SYSTEM AND STORAGE**

Design and construct a Potable Water System (PWS), served by the well, to include one above ground storage tank with the remaining water stored in a ground surface mounted water storage tank(s). Total water storage shall be 232,500 liters

The Storage Tank(s) shall be located adjacent to the water well as illustrated on the Concept Site Plan.

The water system shall be constructed in conformance with Section 01015, the government provided drawings, AED Design Requirements, and UFC 3-230-03A Water Supply.

### **2.3.5 WASTEWATER COLLECTION AND TREATMENT SYSTEM**

The Wastewater Collection and Treatment system shall be designed and constructed in accordance with 01015 Technical Requirements. The Wastewater Collection System shall consist of gravity sewer pipe network and all accessories such as manholes, cleanouts, and building service connections. The Collection System shall connect to the Wastewater Treatment Plant (WWTP).

#### **2.3.5.1 WASTEWATER TREATMENT PLANT**

The Contractor shall design and construct a wastewater treatment plant according to the requirements in Section 01015.

The wastewater treatment plant (WWTP) shall be a partial mix aeration lagoon system that has features including but not limited to a lift/pump station (if necessary), headworks, aeration pond, settling pond, sludge drying lagoons, and chlorine contact tank. In addition the Contractor shall design and construct a support building(s) for lab/office/storage space. The capacity of the wastewater treatment plant shall be 93,000 liters per day. Refer to the Site Concept Plan attached in the Appendix for the general location of the WWTP. The waste water treatment lagoon system shall be designed and constructed such that the system shall not be flooded by a 20-year storm event and shall include considerations for potential flooding events originating upstream.

The Contractor shall design and construct a 35 m<sup>2</sup> CMU building. . The Contractor shall provide lighting per Section 01015. The exterior finish shall be stucco per Section 01015. Interior Construction: The interior wall surfaces shall be painted plaster. No painted plywood or other wood panel product shall be used. Metal roofing on an overbuilt structure shall be used. The slope of the roof shall be a minimum of 2V:10H. The exterior door and frame shall be galvanized with a factory applied finish. Electrical: provide wall outlets, electric heating, ceiling fan, and an exhaust fan with makeup air opening. The Contractor shall provide one (1) counter mounted stainless steel sink, (1) one stainless work table. Provide hot and cold water, drain and venting for the sink. Provide a floor drain and hose bib to facilitate wash down of the laboratory.

The Contractor shall design and construct an approximately 14 m<sup>2</sup> CMU chemical feed/storage building as part of the waste water treatment plant. The chemical feed/storage building shall contain all hypochlorite system components and space for chemical storage. The chemical feed/storage building shall be adequately ventilated to prevent accumulation of chemical off gases. The Contractor shall provide a hose bib in the building and floor drain.

The Contractor shall provide lighting per Section 01015. The exterior finish shall be stucco per Section 01015. Interior Construction: The interior wall surfaces shall be painted plaster. No painted plywood or other wood panel product shall be used. Metal roofing on an overbuilt structure shall be used. The slope of the roof shall be a minimum of 2V:10H. The exterior door and frame shall be galvanized with a factory applied finish. Provide two (2) aggregate surfaced vehicle parking spaces. Provide aggregate surfaced driveways and driving lanes as necessary.

The wastewater treatment plant shall be surrounded with a 3 m high chain link security fence with Y channel and triple strand concertina wire on top. The fence shall have one (1) lockable personnel gate and two (2) lockable double swing arm gates. The fencing shall be offset a minimum of 8 m from the exterior walls of buildings and other wastewater treatment plant facilities. Construct the fencing and gates per the Fencing Details provided in the Appendix.

WWTP Outfall: The Contractor shall design and construct a gravity or force main outfall pipe from the waste water treatment lagoon system to the nearest wadi or suitable off site drainage ditch. The design and construction of the outfall shall include measures to prevent erosion due to the flow from the Wastewater Treatment Plant.

Backup Power: The Contractor shall design and construct a backup power generator system for the waste water treatment system which is independent of the prime power plant. The Contractor shall ensure that the backup power generator system will accommodate the waste water facility's power requirements. The backup power generator system shall provide fuel storage for the generator with capacity to provide 48 hours of continuous generator run time along with an electrical distribution system to the facility. Additional requirements for the backup power system are in Section 01015. The generator and the fuel storage shall be placed on a concrete pad with secondary containment capable of holding 110% of the fuel storage tanks volume. Additionally the generator/fuel storage station shall have a metal canopy over it to protect it from weather and prevent water from accumulating in the secondary containment.

### **2.3.6 ELECTRICAL GENERATION AND DISTRIBUTION SYSTEM**

Design and construct an Electrical Generation and Distribution system.

Design and construct all components of an Electrical Generation and Distribution System, to include generator(s), fuel tank(s), switchgear, and all other components. Design all parts of the system in accordance with Section 01015, and the referenced codes/publications. "Generator(s), fuel tank(s), and switchgear shall be located at the Fuel Storage, Generator Canopy and Vehicle Fuel Point" area, described herein.

**The Contractor shall fill generator tank(s) with fuel at project turnover, after successful completion of commissioning.** Contractor is also responsible for providing fuel for the commissioning.

### **2.3.7 COMMUNICATION SYSTEM**

Design and construct the communications infrastructure. The communications ductbank system shall extend from the Administration/Headquarters Buildings to all guard towers, guard shacks and guard houses. The communications wiring shall be installed by others. Communication infrastructure shall be designed and constructed in accordance with Section 01015, Technical Requirements.

Backbone Pathway: Telecommunication pathways from the telecommunications entrance facility to telecommunications room(s), and, telecommunications equipment rooms (backbone conduits) shall be installed.

### **2.3.8 FUEL STORAGE, GENERATOR CANOPY, AND VEHICLE FUEL POINT**

Contractor shall design and construct a diesel (vehicle) fuel storage and dispensing system, including remote Fuel Delivery Point and all necessary components and installation of all required equipment and tanks in accordance with Section 01015 and standard drawings titled "17 Fuel Generators Canopy". Vehicle fuel capacity shall be 60,000 liters of diesel and 5,000 liters of MOGAS storage.

Sizing of the generator fuel storage tanks shall be in accordance with requirements as described in Section 01015.

**Contractor shall fill each fuel tank with fuel at project turnover after successful completion of commissioning.**

Contractor shall design and construct a canopy and enclosures to house the Fuel Tanks, Electrical generators and switchgear as conceptually illustrated in Appendix drawings titled "17 Fuel Generator Canopy" as follows:

Containment Dike: All fuel tanks shall be enclosed within a containment dike consisting of a concrete slab on grade and containment wall per provided drawings.

Protection wall: A fully grouted non-structural continuous 200mm masonry block wall as illustrated on Concept Site Plan in Appendix A. Wall shall be 3m tall and maintain a minimum 1 meter clearance from all tanks and components within. Provide (1) fixed steel access ladder on the inside of the enclosure wall.

Canopy: All equipment, Fuel Tanks, Generators and Switchgear shall be housed under one common steel canopy structure as illustrated in standard drawings Appendix A. Canopy height shall be 1m minimum clear above wall enclosure below.

Fencing: Generators and Switchgear shall be provided with a continuous chainlink fence per section "Fencing, Gates and Barriers" below.

### **2.3.9 ASPHALT ROADWAYS/DRIVEWAYS AND PARKING**

Construct asphalt-surfaced roadways/driveways, located as illustrated on the Concept Site Plan. All roadways located inside the Perimeter Security Wall shall match what is listed on the Concept Site Plan.

Parking areas shall be designed so that parking space sizes and quantities match what is listed on the Concept Site Plan.

Provide a 100m long convoy asphalt paved stage area as shown on the Concept Site Plan.

### **2.3.10 AGGREGATE ROADWAYS/DRIVEWAYS/SIDEWALKS AND PARKING**

Construct aggregate roadways/driveways/sidewalks and parking areas, shall be located as illustrated on the Concept Site Plan. All roadways/driveways located outside the Perimeter Security Wall shall be aggregate.

Native crushed stone, 100 mm depth, shall be placed around a 3-meter perimeter of all buildings and structures.

Provide a 5,000sm aggregate motor pool area as shown on concept site plan.

All sidewalks shown on the concept site plan shall be aggregate.

### **2.3.11 FLAG POLES**

Construct two (2) 10m tall aluminum flagpoles with a common at-grade reinforced concrete base, located as illustrated on the Concept Site Plan, in accordance with the Standard Design drawings.

## **2.4 FORCE PROTECTION**

### **2.4.1 PERIMETER SECURITY WALL**

Construct a masonry or native stone Perimeter Security Wall, as illustrated on the Concept Site Plan, in accordance with the government provided Standard Drawings and all other requirements herein.

Construct stone masonry wall with reinforced concrete core as shown on Standard Drawing detail with following exceptions: The top of wall height shall be 3000mm **above grade** (in lieu of the 2400mm as currently detailed), with a single strand of concertina wire on the outriggers. The footing width shall be 1450mm (in lieu of 1300mm width as currently detailed), and centered under wall. The footing reinforcement shall be #16 bars @ 300mm on center each way, at the top and bottom of the wall footing.

### **2.4.2 FENCING, GATES, AND BARRIERS**

Provide chain-link fencing and gates at each of the following locations, as illustrated on the Concept Site Plan: at the DFAC service yard, surrounding the Female Barracks, the Motor Pool area (to include the Vehicle Maintenance and

POL Buildings) and the Waste Water Treatment Plant and lagoon. Provide double-leaf swinging lockable gates at chain-link fences to allow direct vehicular access to the Dining Facility service area, and Motor Pool driveways. Fencing and gates shall be constructed in accordance with the Standard Design drawings.

Provide 3meter high chain-link fence to surround the Motor Pool area, to include the Vehicle Maintenance and POL Buildings. Provide double-leaf swinging gates at the two driveways into the Motor Pool area, in the driveway location illustrated on the Concept Site Plan.

At the Female Barracks, provide a 2.4-m high chain link fence 5-meters from building perimeter. Provide lockable entry gates through chain link fenced area at each sidewalk leading from a building entrance.

At the Wastewater Treatment Plant and lagoon, provide a 2.4-m high chain link fence 2.5-meters minimum from the perimeter of the plant. Provide lockable entry gates through chain link fenced area

Provide one (1) Personnel Gate in the Perimeter Wall at the man-door location illustrated on the Concept Site Plan. Gate shall be constructed in accordance with the Standard Design drawings.

Concrete barrier walls shall be located in areas as illustrated on the Concept Site Plan.

Provide and install Drop-Arm gates at locations as illustrated on the Concept Site Plan. Gates shall be constructed in accordance with the Standard Design drawings.

Provide Sliding Gates at entrance/exit points into the compound, located as illustrated on the Concept Site Plan. Sliding Gate shall be constructed in accordance with the Standard Design drawings.

Provide speed bumps on approach to exterior drop-arm checkpoint at all ECP locations.

## **2.5 FACILITIES**

### **2.5.1 ADMINISTRATION BUILDING W/ WOOD STOVE HEAT**

Construct one (1) Administration Building w/ Wood Stove Heat, located as illustrated on the Concept Site Plan. Administration Building shall be constructed in accordance with the provided Standard Building Design drawings, entitled "01\_AD13\_Admin Bldg\_Type2W (1446)".

Provide window screens for windows in all rooms throughout the building.

### **2.5.2 DINING FACILITY**

Construct one (1) Dining Facility, located as illustrated on the Concept Site plan. Dining Facility shall be constructed in accordance with the provided Standard Building Design drawings, entitled "02\_Dining\_Facility\_Type\_2\_(559 GSM)\_WS".

Provide window screens in all windows throughout the building.

### **2.5.3 TRAINING BUILDING W/ WOOD STOVE HEAT**

Construct one (1) Training Building, located as illustrated on the Concept Site Plan. Training Building shall be constructed in accordance with the provided Standard Building Design drawings, entitled "03\_CL06\_Traing Bldg (Wood)".

The operable partition shall be omitted from the design.

### **2.5.4 OPEN BAY BARRACKS W/ WOOD STOVE HEAT**

Construct three (3) Open Bay Barracks, located as illustrated on the Concept Site Plan. Open Bay Barracks shall be constructed in accordance with the provided Standard Building Design drawings, entitled "04\_B13\_Open Bay Barracks\_Type 2W (579)".

Provide three (3) clotheslines, constructed in accordance with the Standard Design drawings, adjacent to the Barracks Building; clothesline shall not be located in the Assembly Area, illustrated on the Concept Site Plan.

#### **2.5.5 SENIOR BARRACKS W/ WOOD STOVE HEAT**

Construct two (2) Senior Barracks, located as illustrated on the Concept Site Plan. Senior Barracks shall be constructed in accordance with the provided Standard Building Design drawings, entitled "05\_B12\_Senior Barracks\_Type 1W (862)".

Provide three (3) clotheslines, constructed in accordance with the Standard Design drawings, adjacent to the Barracks Building; clothesline shall not be located in the Assembly Area, illustrated on the Concept Site Plan.

#### **2.5.6 FEMALE BARRACKS W/ WOOD STOVE HEAT**

Construct one (1) Female Barracks, located as illustrated on the Concept Site Plan. Female Barracks shall be constructed in accordance with the provided Standard Building Design drawings, entitled "06\_B25 - Womens Barraks".

Provide three (3) clotheslines, constructed in accordance with the Standard Design drawings adjacent to the Female Barracks, as illustrated on the Concept Site Plan.

#### **2.5.7 LATRINES**

Construct three (3) Latrines, located in accordance with the Concept Site Plan. Latrines shall be constructed in accordance with the provided Standard Building Design drawings, entitled "07\_L02-Latrine (Medium)".

#### **2.5.8 GUARD TOWERS**

Construct five (5) Guard Towers, located in accordance with the Concept Site Plan. Guard Towers shall be constructed in accordance with the provided Standard Building Design drawings, entitled "08\_FP04a\_GT Walk and Fence".

The design of the Guard Tower shall be flipped or mirrored for particular locations, so that its orientation matches to the Concept Site Plan.

#### **2.5.9 GUARD SHACKS**

Construct three (3) Guard Shacks, located in accordance with the Concept Site Plan. Guard Shacks shall be constructed in accordance with the provided Standard Building Design drawings entitled "09\_Guard Shack".

#### **2.5.10 GUARD HOUSE W/ WOOD STOVE HEAT**

Construct one (1) Guard House, located in accordance with the Concept Site Plan. Guard Shacks shall be constructed in accordance with the provided Standard Building Design drawings, entitled "10\_FP07\_Guard House".

#### **2.5.11 WELL HOUSE**

Construct one (1) Well House located in general accordance to the Concept Site Plan; the Well House shall be located at the drilled Well site. Well House shall be constructed in accordance with the provided Standard Building Design drawings, entitled "11\_Well House".

#### **2.5.12 SECURE STORAGE BUILDING (ASP)**

Construct one (1) Secure Storage Buildings (Ammunition Supply Point), located in accordance with the Concept Site Plan. Secure Storage Buildings shall be constructed in accordance with the provided Standard Building Design

drawings, entitled "12\_Secure Storage". No other buildings or structures shall be located within a 45 meter standoff distance from the Secure Storage Buildings.

#### **2.5.13 VEHICLE MAINTENANCE AND POL BUILDING**

Construct one (1) Vehicle Maintenance and one (1) Petroleum, Oil and Lubricant (POL) Building, located in accordance with the Concept Site Plan. The Vehicle Maintenance and POL Building shall be constructed in accordance with the provided Standard Building Design drawings, entitled "13\_Vehicle Maintenance & POL Building".

#### **2.5.14 WAREHOUSE**

Construct two (2) Warehouses, located in accordance with the Concept Site Plan. The Warehouses shall be constructed in accordance with the provided Standard Building Design drawings, entitled "14\_Warehouse Building".

The Warehouses shall be oriented such that the overhead door is facing the adjacent roadway.

#### **2.5.15 TRASH COLLECTION POINT**

Contractor shall construct two (2) Trash Collection Points, located in accordance with the Concept Site Plan. Trash Collection Points shall be constructed in accordance with the provided Standard Building Design drawings, entitled "15\_Trash Point".

#### **2.5.16 SMALL ARMS MAINTENANCE BUILDING**

Construct one (1) Small Arms Maintenance Building, located in accordance with the Concept Site Plan. Small Arms Maintenance Building shall be constructed in accordance with the provided Standard Building Design drawings, entitled "16\_Arms Storage".

Exterior doors shall be heavy duty steel security grade. Design and construct wooden racks in each Arms Room for storing long-arm weapons vertically; racks shall not be furnished with locking bars.

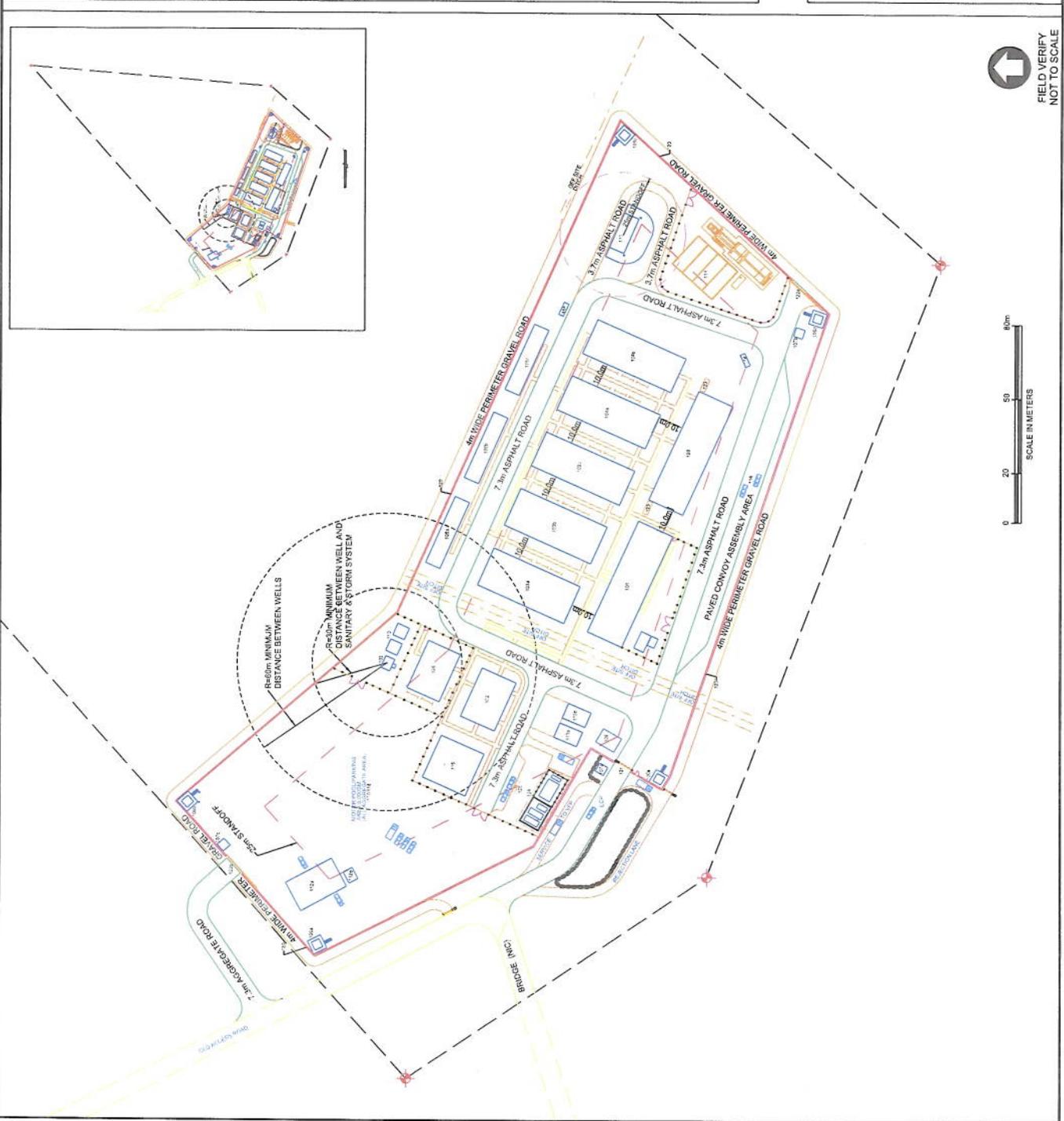
Provide explosion-proof interior lighting. Provide exterior lighting on the corners of the building sufficient to light an area 30 m from the building.

**-- END OF SECTION --**

**ANCOP PATROL BATTALION**  
**CONCEPT SITE PLAN**

AFGHAN NATIONAL SECURITY FORCE  
 Comprehensive Plan for Facilities Development

SCALE: AS SHOWN  
 DATE: NOV 2011  
 FIGURE:



- NEW FACILITIES**
- 100 ADMINISTRATION BLDG
  - 101 DINING FACILITY BUILDING W/ WOOD STOVE (ANNEX)
  - 102 TRAINING BLDG
  - 103a-c OPEN BAY BARRACKS
  - 104a-b SENIOR BARRACKS
  - 105a-c GUARD TOWERS
  - 106a-c GUARD SHACKS
  - 107a-c GUARD HOUSE
  - 108 WATER TANK(S)
  - 110 SECURE STORAGE BUILDING (ASP)
  - 111 VEHICLE MAINTENANCE BLDG
  - 112a-112b WAREHOUSE, OIL AND LUBRICANT (POL) BLDG
  - 113a-b WAREHOUSE
  - 114 TRASH COLLECTION POINT
  - 115 SMALL ARM MAINTENANCE BLDG
  - 116 MOTOR POOL
  - 117 CAR PARKING (100 CARS TOTAL @ 4m x 5.5m each)
  - 118 TRUCK PARKING (40 @ 4m x 11m each)
  - 119 TRAILER PARKING (20 @ 4m x 5.5m each)
  - 120 TV SETTING
  - 121 WASTEWATER TREATMENT PLANT
  - 122 FORCE PROTECTION WALL
  - 122a-b SECURITY POINT (ESP)
  - 123 SECONDARY ENTRY CONTROL POINT / ESCAPE HATCH
  - 124 FLAG POLES
  - 125 GENERATOR AND FUEL STORAGE CANOPY
  - 126 MAINTENANCE BLDG
  - 128 FEMALE BARRACKS

**NOT FOR CONSTRUCTION**

**LEGEND**

- CONCRETE BARRIER WALL
- GATE
- CHAIN LINK FENCE
- CAR PARKING
- TRUCK PARKING
- TRAILER PARKING
- PATH
- STAND OFF
- FORCE PROTECTION WALL
- LICENSE FOR CONSTRUCTION LINE
- UNDERGROUND
- CLOTHES LINE

SCALE IN METERS

0 20 40 60 80 100

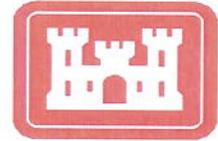
FIELD VERIFY  
 NOT TO SCALE

## **Appendix B Site**

### **Assessment**



## Site-Visit Report Herat Area Office



### Findings:

The site is located adjacent to a seasonal flood plain. It can be expected that significant amounts of fast moving water will be present in the Spring months. The water from previous years has eroded the soil leaving a vertical drop-off at the points of 4-5 and 5-1. In addition, there is a draw located at the position between points 3 and 4. This draw appears to produce significant water run-off as well, and has eroded this area in a manner similar to 5-1 and 4-5.

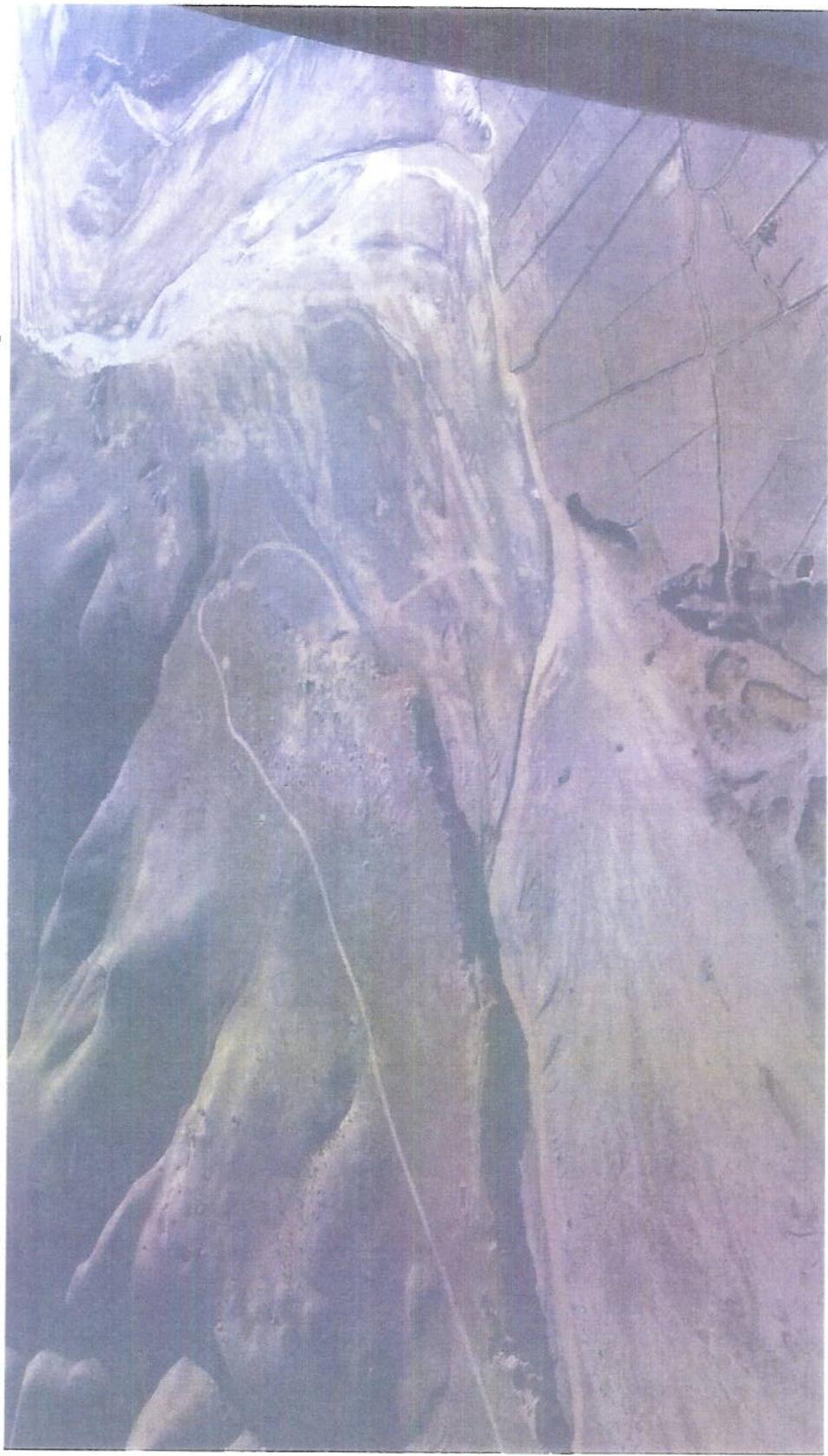
There is a dirt road that accesses the proposed site and runs from the NW to the SE and circles back into the river bed near point 4. The area to the North of this road which contains the majority of the proposed sight is hilly and contains steep and significant elevation gains and drops. Building in this area would require significant cutting and filling. It could possibly be stepped and graded to provide a suitable building space. This would require a significant amount of site work however.

The concept site plan provided shows the perimeter force protection wall and guard towers located along points 5-1, 4-5, and 3-4. It should be noted, and will be visible in the site photos that these areas contain steep cliffs and have potentially unstable soil. It is not likely that the perimeter wall and three guard towers can be built at these locations.

Please see attached site photos for additional details.



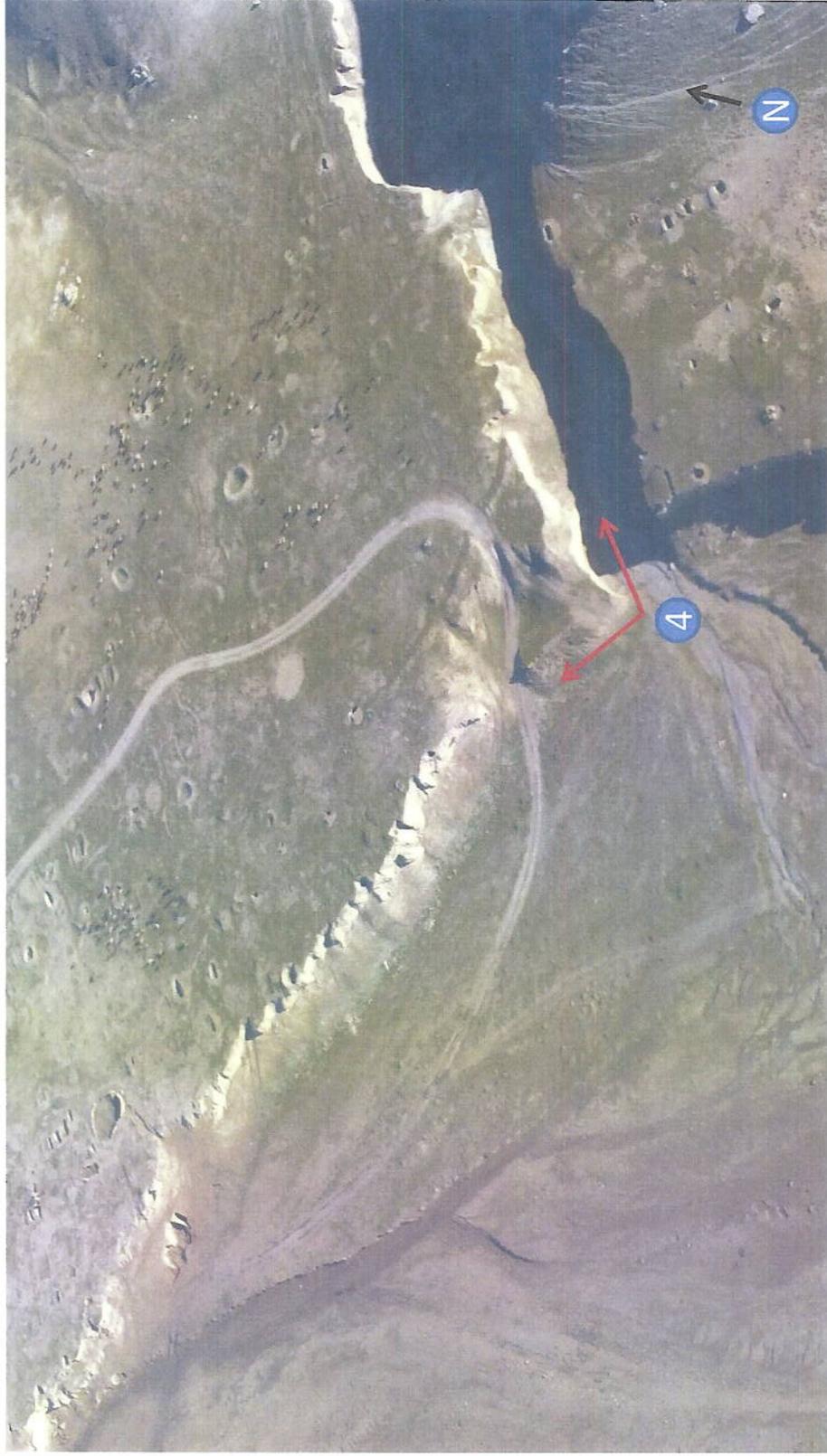
ANCOP Patrol BN – Badghis Province,  
Muqur District – Site Report



Steep Drop-Offs are located on three of the proposed site borders



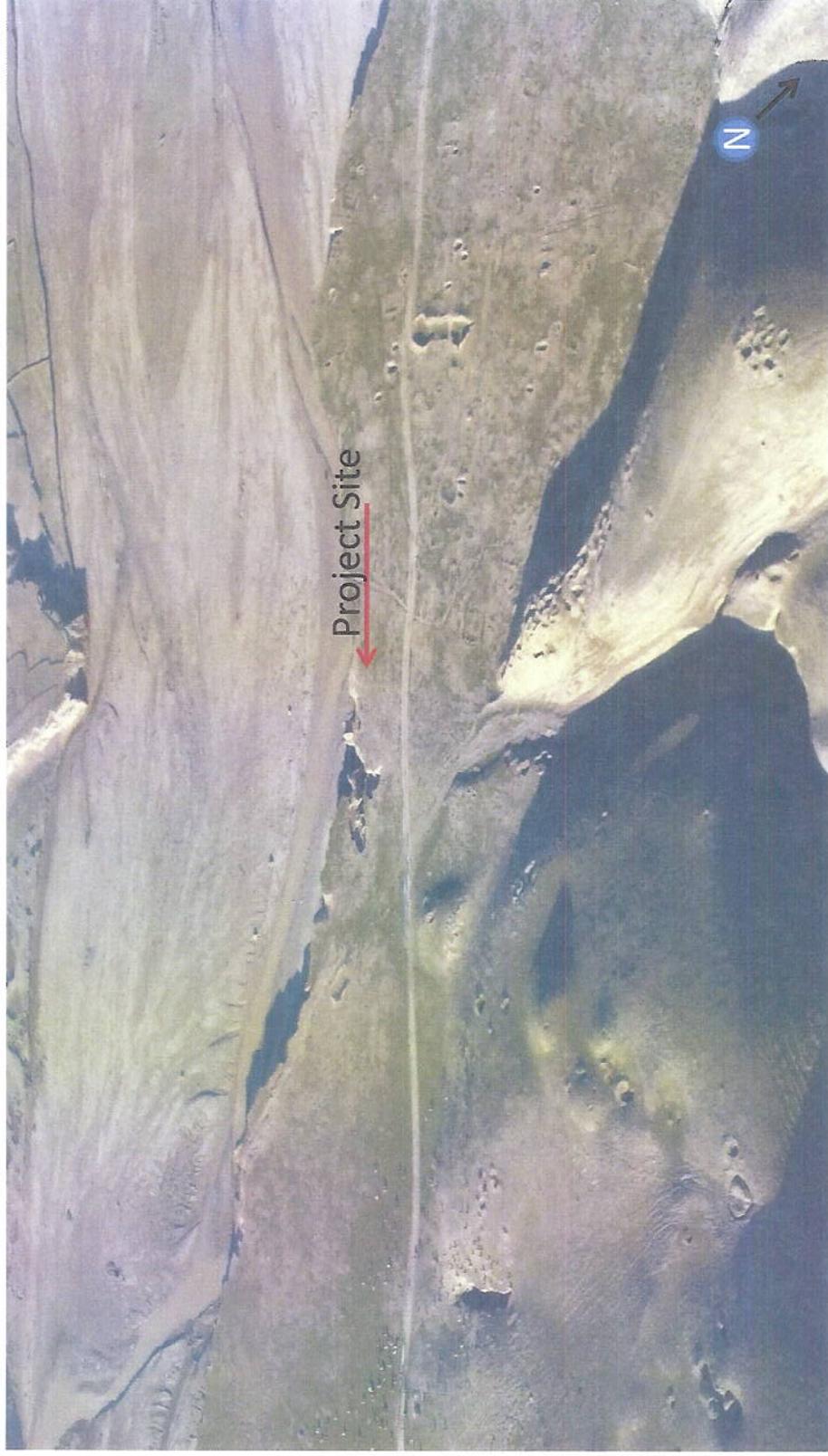
# The proposed site point 4



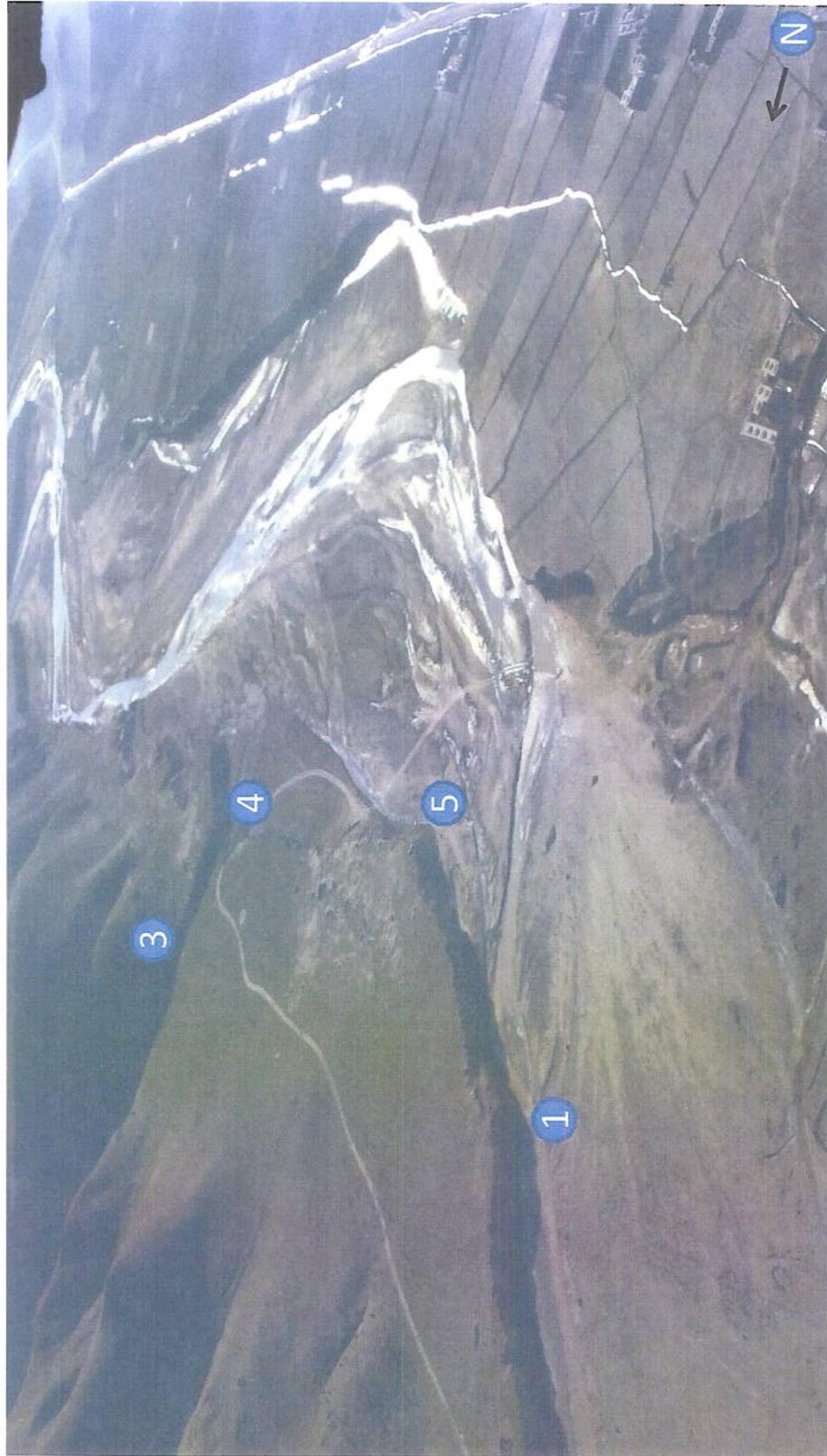
Proposed site point 5



Road accessing the proposed site from the North-West



Proposed site points 1,3,4,5



Overview – South-East corner



# Proposed site point 5



# Site Overview



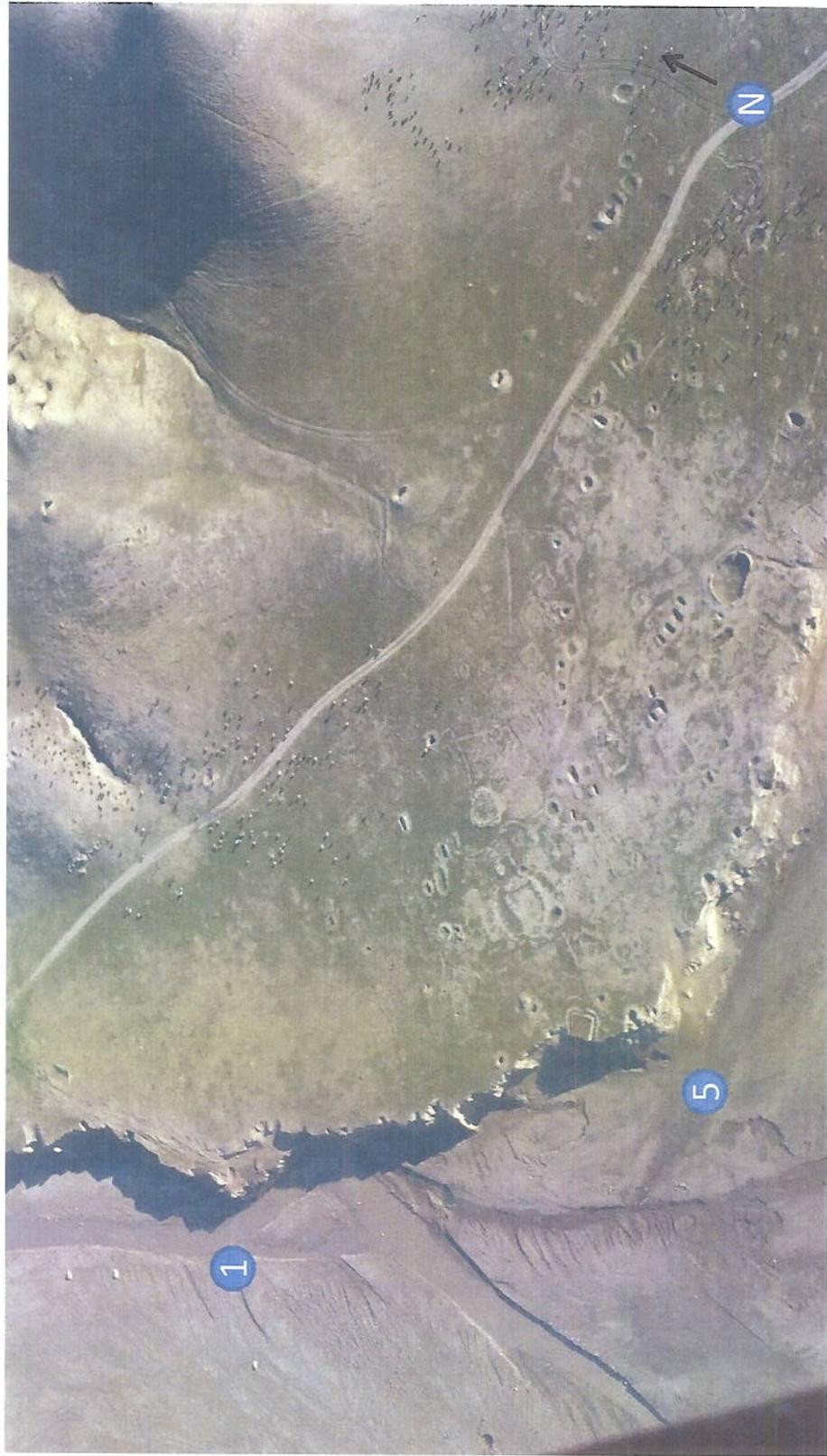
Proposed bridge site



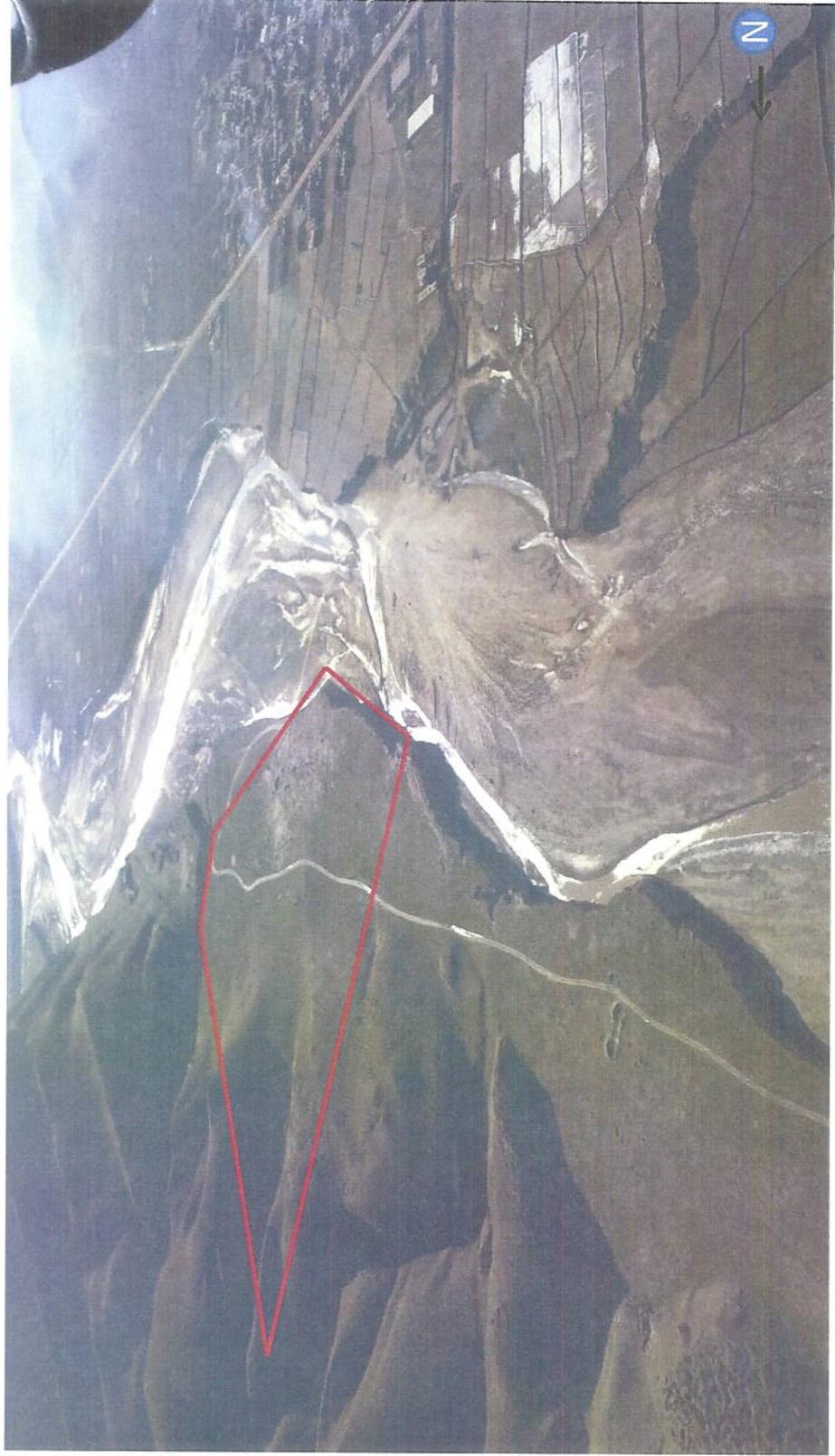
Proposed project building site



Proposed site points 1 and 5



Rough Dimensions of the Proposed Site



Overview of the proposed site



Proposed site overview



Proposed site overview

