Request for Quotations (RFQ) PR8235486

RIDGE TRENCHING CONDUIT AND CABLING PROJECT

Unclassified

TABLE OF CONTENTS

SF-1442 COVER SHEET

A. PRICE

B. SCOPE OF WORK

C. PACKAGING AND MARKING

D. INSPECTION AND ACCEPTANCE

E. DELIVERIES OR PERFORMANCE

F. ADMINISTRATIVE DATA

G. SPECIAL REQUIREMENTS

H. CLAUSES

I. LIST OF ATTACHMENTS

J. QUOTATION INFORMATION

K. EVALUATION CRITERIA

L. REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS OR QUOTERS

ATTACHMENTS:

Attachment 1: Sample Letter of Bank Guaranty
Attachment 2: Breakdown of Price by Divisions of Specifications
Attachment 3: Specifications (SOW)
Attachment 4: Drawings for Telecom Conduit and Cabling
Attachment 5: Specifications (SOW) for Technical Security Conduit and Cabling
Attachment 6: Communications Backbone Cabling Standards
Attachment 7: Key Concerns

SOLICITATION, OFFER, AND AWARD (Construction, Alteration, or Repair)	1. SOLICITATION NO. PR8235486	2. TYPE OF SOLICITATION ☐ SEALED BID (IFB) [x] NEGOTIATED (RFP)	3. DATE ISSUED Aug 26, 2019	PAGE OF PAGES 1/73

IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.

4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO. PR8235486	6. PROJECT NO.

7. ISSUED BY CODE	8. ADDRESS OFFER TO
GSO/Procurement TIRANA **U.S. Embassy** **Rruga e Elbasanit, Nr. 103** **TIRANE**	**GSO/Procurement TIRANA** **U.S. Embassy** **Rruga e Elbasanit, Nr. 103** **TIRANE**

9. FOR INFORMATION CALL: →	A. NAME Enke Plasari	B. TELEPHONE NO. *(Include area code)* ***(NO COLLECT CALLS)*** + 355 4224 7285

SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder."

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS *(Title, identifying no., date):*

Attachment 3: Specifications (SOW)
Attachment 4: Drawings for Telecom Conduit and Cabling
Attachment 5: Specifications (SOW) for Technical Security Conduit and Cabling
Attachment 6: Communications Backbone Cabling Standards
Attachment 7: Key Concerns

11. The Contractor shall begin performance within **10 (ten)** calendar days and complete it within 40 **(forty)** calendar days after receiving

☐ award, ☒ notice to proceed. This performance period is ☒ mandatory, ☐ negotiable. *(See _____.)*

12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? *(If "YES," indicate within how many calendar days after award in Item 12B.)* ☒ YES ☐ NO	12B. CALENDAR DAYS 10 (ten)

13. ADDITIONAL SOLICITATION REQUIREMENTS:

A. Sealed offers in original and 1(one) copies to perform the work required are due at the place specified in Item 8 by **17:00hrs *(hour)* local time, September 13, 2019** *(date)*. If this is a sealed bid solicitation, offers must be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

B. An offer guarantee ☐ is, ☒ is not required.

C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

D. Offers providing less than **180 (one hundred eighty)** calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

NSN 7540-01-155-3212 1442-101 **STANDARD FORM 1442** (REV. 4-85)
Computer Generated Prescribed by GSA
FAR (48 CFR) 53.236-1(e)

OFFER *(Must be fully completed by offeror)*

14. NAME AND ADDRESS OF OFFEROR *(Include ZIP Code)*	15. TELEPHONE NO. *(Include area code)*

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CODE FACILITY CODE	16. REMITTANCE ADDRESS *(Include only if different than Item 14)*

17. The offeror agrees to perform the work at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government within _____ calendar days after the date offers are due. *(Insert any number equal to or greater than the minimum requirement stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.*

AMOUNTS ➔

18. The offeror agrees to furnish any required performance and payment bonds.

19. ACKNOWLEDGMENT OF AMENDMENTS

The offeror acknowledges receipt of amendments to the solicitation -- give number and date of each

AMENDMENT NO.										
DATE										

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER *(Type or print)*	20B. SIGNATURE	20C. OFFER DATE

AWARD *(To be completed by Government)*

21. ITEMS ACCEPTED:

22. AMOUNT	23. ACCOUNTING AND APPROPRIATION DATA

24. SUBMIT INVOICES TO ADDRESS SHOWN IN *(4 copies unless otherwise specified)*	ITEM ➔	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO ☐ 10 U.S.C. 2304(c)( ) ☐ 41 U.S.C. 253(c)( )
26. ADMINISTERED BY CODE		27. PAYMENT WILL BE MADE BY

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

☐ 28. NEGOTIATED AGREEMENT *(Contractor is required to sign this do* representations, certifications, and specifications or incorporated by reference in or attached to this contract.	☐ 29. AWARD *(Contractor is not required to sign this document.)* Your offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.
30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN *(Type or print)*	31A. NAME OF CONTRACTING OFFICER *(Type or print)* Sally Lewis

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30B. SIGNATURE	30C. DATE	31B. UNITED STATES OF AMERICA	31C. AWARD DATE
		Sally Lewis BY	

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BACK (REV. 4-85)

STANDARD FORM 1442

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REQUEST FOR QUOTATIONS - CONSTRUCTION

A. PRICE

The Contractor shall complete all work, including furnishing all labor, material, equipment and services required under this purchase order for the following firm fixed price and within the time specified. This price shall include all labor, materials, all insurances, overhead and profit.

Total Price (including all labor, materials, overhead and profit and VAT)	ALL

A.1 VALUE ADDED TAX

VALUE ADDED TAX (VAT). The Contractor shall include VAT as a separate charge on the Invoice and as a separate line item in Section B.

B. SCOPE OF WORK

The character and scope of the work are set forth in the contract. The Contractor shall furnish and install all materials required by this contract.

In case of differences between small and large-scale drawings, the latter will govern. Where a portion of the work is drawn in detail and the remainder of the work is indicated in outline, the parts drawn in detail shall apply also to all other portions of the work.

C. PACKAGING AND MARKING

Mark materials delivered to the site as follows:

Embassy of the United States Tirana
PR8235486
Rruga Elbasanit, Nr. 103
Tirane
Albania

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D. INSPECTION AND ACCEPTANCE

The COR, or his/her authorized representatives, will inspect from time to time the services being performed and the supplies furnished to determine whether work is being performed in a satisfactory manner, and that all supplies are of acceptable quality and standards.

The Contractor shall be responsible for any countermeasures or corrective action, within the scope of this contract, which may be required by the Contracting Officer as a result of such inspection.

D.1 SUBSTANTIAL COMPLETION

(a) "*Substantial Completion*" means the stage in the progress of the work as determined and certified by the Contracting Officer in writing to the Contractor, on which the work (or a portion designated by the Government) is sufficiently complete and satisfactory. Substantial completion means that the property may be occupied or used for the purpose for which it is intended, and only minor items such as touch-up, adjustments, and minor replacements or installations remain to be completed or corrected which:

(1) do not interfere with the intended occupancy or utilization of the work, and
(2) can be completed or corrected within the time period required for final completion.

(b) The "date of substantial completion" means the date determined by the Contracting Officer or authorized Government representative as of which substantial completion of the work has been achieved.

Use and Possession upon Substantial Completion - The Government shall have the right to take possession of and use the work upon substantial completion. Upon notice by the Contractor that the work is substantially complete (a Request for Substantial Completion) and an inspection by the Contracting Officer or an authorized Government representative (including any required tests), the Contracting Officer shall furnish the Contractor a Certificate of Substantial Completion. The certificate will be accompanied by a Schedule of Defects listing items of work remaining to be performed, completed or corrected before final completion and acceptance. Failure of the Contracting Officer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The Government's possession or use upon substantial completion shall not be deemed an acceptance of any work under the contract.

D.2 FINAL COMPLETION AND ACCEPTANCE

D.2.1 "Final completion and acceptance" means the stage in the progress of the work as determined by the Contracting Officer and confirmed in writing to the Contractor, at which all work required under the contract has been completed in a satisfactory manner, subject to the discovery of defects after final completion, and except for items specifically excluded in the notice of final acceptance.

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D.2.2 The "*date of final completion and acceptance*" means the date determined by the Contracting Officer when final completion of the work has been achieved, as indicated by written notice to the Contractor.

D.2.3 FINAL INSPECTION AND TESTS. The Contractor shall give the Contracting Officer at least five (5) days advance written notice of the date when the work will be fully completed and ready for final inspection and tests. Final inspection and tests will be started not later than the date specified in the notice unless the Contracting Officer determines that the work is not ready for final inspection and so informs the Contractor.

D.2.4 FINAL ACCEPTANCE. If the Contracting Officer is satisfied that the work under the contract is complete (with the exception of continuing obligations), the Contracting Officer shall issue to the Contractor a notice of final acceptance and make final payment upon:

- Satisfactory completion of all required tests,
- A final inspection that all items by the Contracting Officer listed in the Schedule of Defects have been completed or corrected and that the work is finally complete (subject to the discovery of defects after final completion), and
- Submittal by the Contractor of all documents and other items required upon completion of the work, including a final request for payment (Request for Final Acceptance).

E. DELIVERIES OR PERFORMANCE

52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to:

(a) commence work under this contract within 10 (ten) calendar days after the date the Contractor receives the notice to proceed,
(b) prosecute the work diligently, and,
(c) complete the entire work ready for use not later than 40 (forty) days after NTP.

The time stated for completion shall include final cleanup of the premises.

CONTRACTOR'S SUBMISSION OF CONSTRUCTION SCHEDULES

(a) The time for submission of the schedules referenced in FAR 52.236-15, "Schedules for Construction Contracts", paragraph (a), is hereby modified to reflect the due date for submission as " 5 (five) calendar days after receipt of an executed contract".

(b) These schedules shall include the time by which shop drawings, product data, samples and other submittals required by the contract will be submitted for approval.

(c) The Contractor shall revise such schedules (1) to account for the actual progress of the work, (2) to reflect approved adjustments in the performance schedule, and (3) as required by

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the Contracting Officer to achieve coordination with work by the Government and any separate contractors used by the Government. The Contractor shall submit a schedule, which sequences work so as to minimize disruption at the job site.

(d) All deliverables shall be in the English language and any system of dimensions (English or metric) shown shall be consistent with that used in the contract. No extension of time shall be allowed due to delay by the Government in approving such deliverables if the Contractor has failed to act promptly and responsively in submitting its deliverables. The Contractor shall identify each deliverable as required by the contract.

(e) Acceptance of Schedule: When the Government has accepted any time schedule; it shall be binding upon the Contractor. The completion date is fixed and may be extended only by a written contract modification signed by the Contracting Officer. Acceptance or approval of any schedule or revision thereof by the Government shall not:

(1) Extend the completion date or obligate the Government to do so,
(2) Constitute acceptance or approval of any delay, or
(3) Excuse the Contractor from or relieve the Contractor of its obligation to maintain the progress of the work and achieve final completion by the established completion date.

NOTICE OF DELAY

If the Contractor receives a notice of any change in the work, or if any other conditions arise which are likely to cause or are actually causing delays which the Contractor believes may result in late completion of the project, the Contractor shall notify the Contracting Officer. The Contractor's notice shall state the effect, if any, of such change or other conditions upon the approved schedule, and shall state in what respects, if any, the relevant schedule or the completion date should be revised. The Contractor shall give such notice promptly, not more than ten (10) days after the first event giving rise to the delay or prospective delay. Only the Contracting Officer may make revisions to the approved time schedule.

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NOTICE TO PROCEED

(a) After receiving and accepting any bonds or evidence of insurance, the Contracting Officer will provide the Contractor a Notice to Proceed. The Contractor must then prosecute the work, commencing and completing performance not later than the time period established in the contract.

(b) It is possible that the Contracting Officer may elect to issue the Notice to Proceed before receipt and acceptance of any bonds or evidence of insurance. Issuance of a Notice to Proceed by the Government before receipt of the required bonds or insurance certificates or policies shall not be a waiver of the requirement to furnish these documents.

WORKING HOURS

All work shall be performed during **working hours, from Monday to Friday.** Other hours, if requested by the Contractor, may be approved by the Contracting Officer's Representative (COR). The Contractor shall give 24 hours in advance to COR who will consider any deviation from the hours identified above. Changes in work hours, initiated by the Contractor, will not be a cause for a price increase.

PRECONSTRUCTION CONFERENCE

A preconstruction conference will be held 10 days after contract award at U.S. Embassy, Rruga e Elbasanit, Nr. 103, Tirane, to discuss the schedule, submittals, notice to proceed, mobilization and other important issues that effect construction progress. See FAR 52.236-26, Preconstruction Conference.

DELIVERABLES - The following items shall be delivered under this contract:			
Description	Quantity	Deliver Date	Deliver To
Section G. Securities/Insurance	1	10 days after award	CO
Section E. Construction Schedule	1	10 days after award	COR
Section E. Preconstruction Conference	1	10 days after award	COR
Section G. Personnel Biographies	1	10 days after award	COR
Section F. Payment Request	1	At the end of project completion	COR
Section D. Request for Substantial Completion	1	10 days before inspection	COR
Section D. Request for Final Acceptance	1	5 days before inspection	COR

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F. ADMINISTRATIVE DATA

652.242-70 CONTRACTING OFFICER'S REPRESENTATIVE (COR) (AUG 1999)

(a) The Contracting Officer may designate in writing one or more Government employees, by name or position title, to take action for the Contracting Officer under this contract. Each designee shall be identified as a Contracting Officer's Representative (COR). Such designation(s) shall specify the scope and limitations of the authority so delegated; provided, that the designee shall not change the terms or conditions of the contract, unless the COR is a warranted Contracting Officer and this authority is delegated in the designation.

(b) The COR for this contract is **Gezim Kalija.**

Payment: The Contractor's attention is directed to Section H, 52.232-5, "Payments Under Fixed-Price Construction Contracts". The following elaborates on the information contained in that clause.

Requests for payment, may be made no more frequently than monthly. Payment requests shall cover the value of labor and materials completed and in place, including a prorated portion of overhead and profit.

After receipt of the Contractor's request for payment, and on the basis of an inspection of the work, the Contracting Officer shall make a determination as to the amount, which is then due. If the Contracting Officer does not approve payment of the full amount applied for, less the retainage allowed by in 52.232-5, the Contracting Officer shall advise the Contractor as to the reasons.

Under the authority of 52.232-27(a), the 14 day period identified in FAR 52.232-27(a)(1)(i)(A) is hereby changed to 30 days.

U.S. Embassy
FMO Tirana Vouchering
Rruga e Elbasanit, Nr.103, TIRANE

The Contractor shall show Value Added Tax (VAT) as a separate item on invoices submitted for payment.

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G. SPECIAL REQUIREMENTS

G.1.0 PERFORMANCE/PAYMENT PROTECTION - The Contractor shall furnish some form of payment protection as described in 52.228-13 in the amount of 50% of the contract price. (performance bonds, irrevocable letters of credit, or bank guarantees to be used).

G.1.1 The Contractor shall provide the information required by the paragraph above within ten (10) calendar days after award. Failure to timely submit the required security may result in rescinding or termination of the contract by the Government. If the contract is terminated, the Contractor will be liable for those costs as described in FAR 52.249-10, Default (Fixed-Price Construction), which is included in this purchase order.

G.1.2 The bonds or alternate performance security shall guarantee the Contractor's execution and completion of the work within the contract time. This security shall also guarantee the correction of any defects after completion, the payment of all wages and other amounts payable by the Contractor under its subcontracts or for labor and materials, and the satisfaction or removal of any liens or encumbrances placed on the work.

G.1.3 The required securities shall remain in effect in the full amount required until final acceptance of the project by the Government. Upon final acceptance, the penal sum of the performance security shall be reduced to 10% of the contract price. The security shall remain in effect for one year after the date of final completion and acceptance, and the Contractor shall pay any premium required for the entire period of coverage.

G.2.0 INSURANCE - The Contractor is required by FAR 52.228-5, "Insurance - Work on a Government Installation" to provide whatever insurance is legally necessary. The Contractor shall at its own expense provide and maintain during the entire performance period the following insurance amounts:

G.2.1 GENERAL LIABILITY (includes premises/operations, collapse hazard, products, completed operations, contractual, independent contractors, broad form property damage, personal injury) :

(1) BODILY INJURY, ON OR OFF THE SITE, IN U.S. DOLLARS	
Per Occurrence	**$10,000.00**
Cumulative	**$55,000.00**
(2) PROPERTY DAMAGE, ON OR OFF THE SITE, IN U.S. DOLLARS	
Per Occurrence	**$10,000.00**
Cumulative	**$55,000.00**

G.2.2 The foregoing types and amounts of insurance are the minimums required. The Contractor shall obtain any other types of insurance required by local law or that are ordinarily or customarily obtained in the location of the work. The limit of such insurance shall be as

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provided by law or sufficient to meet normal and customary claims.

G.2.3 The Contractor agrees that the Government shall not be responsible for personal injuries or for damages to any property of the Contractor, its officers, agents, servants, and employees, or any other person, arising from and incident to the Contractor's performance of this contract. The Contractor shall hold harmless and indemnify the Government from any and all claims arising therefrom, except in the instance of gross negligence on the part of the Government.

G.2.4 The Contractor shall obtain adequate insurance for damage to, or theft of, materials and equipment in insurance coverage for loose transit to the site or in storage on or off the site.

G.2.5 The general liability policy required of the Contractor shall name "the United States of America, acting by and through the Department of State", as an additional insured with respect to operations performed under this contract.

G.3.0 DOCUMENT DESCRIPTIONS

G.3.1 SUPPLEMENTAL DOCUMENTS: The Contracting Officer shall furnish from time to time such detailed drawings and other information as is considered necessary, in the opinion of the Contracting Officer, to interpret, clarify, supplement, or correct inconsistencies, errors or omissions in the Contract documents, or to describe minor changes in the work not involving an increase in the contract price or extension of the contract time. The Contractor shall comply with the requirements of the supplemental documents, and unless prompt objection is made by the Contractor within 20 days, their issuance shall not provide for any claim for an increase in the Contract price or an extension of contract time.

G.3.1.1. RECORD DOCUMENTS. The Contractor shall maintain at the project site:

(1) a current marked set of Contract drawings and specifications indicating all interpretations and clarification, contract modifications, change orders, or any other departure from the contract requirements approved by the Contracting Officer; and,
(2) a complete set of record shop drawings, product data, samples and other submittals as approved by the Contracting Officer.

G.3.1.2. "As-Built" Documents: After final completion of the work, but before final acceptance thereof, the Contractor shall provide:

(1) a complete set of "as-built" drawings, based upon the record set of drawings, marked to show the details of construction as actually accomplished; and,
(2) record shop drawings and other submittals, in the number and form as required by the specifications.

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G.4.0 LAWS AND REGULATIONS - The Contractor shall, without additional expense to the Government, be responsible for complying with all laws, codes, ordinances, and regulations applicable to the performance of the work, including those of the host country, and with the lawful orders of any governmental authority having jurisdiction. Host country authorities may not enter the construction site without the permission of the Contracting Officer. Unless otherwise directed by the Contracting Officer, the Contractor shall comply with the more stringent of the requirements of such laws, regulations and orders and of the contract. In the event of a conflict between the contract and such laws, regulations and orders, the Contractor shall promptly advise the Contracting Officer of the conflict and of the Contractor's proposed course of action for resolution by the Contracting Officer.

G.4.1 The Contractor shall comply with all local labor laws, regulations, customs and practices pertaining to labor, safety, and similar matters, to the extent that such compliance is not inconsistent with the requirements of this contract.

G.4.2 The Contractor shall give written assurance to the Contracting Officer that all subcontractors and others performing work on or for the project have obtained all requisite licenses and permits.

G.4.3 The Contractor shall submit proper documentation and evidence satisfactory to the Contracting Officer of compliance with this clause.

G.5.0 CONSTRUCTION PERSONNEL - The Contractor shall maintain discipline at the site and at all times take all reasonable precautions to prevent any unlawful, riotous, or disorderly conduct by or among those employed at the site. The Contractor shall ensure the preservation of peace and protection of persons and property in the neighborhood of the project against such action. The Contracting Officer may require, in writing that the Contractor remove from the work any employee that the Contracting Officer deems incompetent, careless, insubordinate or otherwise objectionable, or whose continued employment on the project is deemed by the Contracting Officer to be contrary to the Government's interests.

G.5.1 If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately give notice, including all relevant information, to the Contracting Officer.

G.5.2 After award, the Contractor has ten calendar days to submit to the Contracting Officer a list of workers and supervisors assigned to this project for the Government to conduct all necessary security checks. It is anticipated that security checks will take 20 days to perform. For each individual the list shall include:

Full Name
Father's Name
Place and Date of Birth
Current Address
Identification number

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Failure to provide any of the above information may be considered grounds for rejection and/or resubmittal of the application. Once the Government has completed the security screening and approved the applicants a badge will be provided to the individual for access to the site. This badge may be revoked at any time due to the falsification of data, or misconduct on site.

G.5.3 The Contractor shall provide an English speaking supervisor on site at all times. This position is considered as key personnel under this purchase order.

G.6.0 Materials and Equipment - All materials and equipment incorporated into the work shall be new and for the purpose intended, unless otherwise specified. All workmanship shall be of good quality and performed in a skillful manner that will withstand inspection by the Contracting Officer.

G.7.0 SPECIAL WARRANTIES

G.7.1 Any special warranties that may be required under the contract shall be subject to the stipulations set forth in 52.246-21, "Warranty of Construction", as long as they are not in conflict.

G.7.2 The Contractor shall obtain and furnish to the Government all information required to make any subcontractor's, manufacturer's, or supplier's guarantee or warranty legally binding and effective. The Contractor shall submit both the information and the guarantee or warranty to the Government in sufficient time to permit the Government to meet any time limit specified in the guarantee or warranty, but not later than completion and acceptance of all work under this contract.

G.8.0 EQUITABLE ADJUSTMENTS

Any circumstance for which the contract provides an equitable adjustment that causes a change within the meaning of paragraph (a) of the "Changes" clause shall be treated as a change under that clause; provided, that the Contractor gives the Contracting Officer prompt written notice (within 20 days) stating:

(a) the date, circumstances, and applicable contract clause authorizing an equitable adjustment and
(b) that the Contractor regards the event as a changed condition for which an equitable adjustment is allowed under the contract

The Contractor shall provide written notice of a differing site condition within 10 calendar days of occurrence following FAR 52.236-2, Differing Site Conditions.

G.9.0 ZONING APPROVALS AND PERMITS

The Government shall be responsible for:

- obtaining proper zoning or other land use control approval for the project

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- obtaining the approval of the Contracting Drawings and Specifications
- paying fees due for the foregoing; and,
- for obtaining and paying for the initial building permits.

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H. CLAUSES

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): *http://www.acquisition.gov/far/* or *http://farsite.hill.af.mil/vffara.htm*. Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.tplto access links to the FAR. You may also use an internet "search engine" (for example, Google, Yahoo, Excite) to obtain the latest location of the most current FAR.

The following Federal Acquisition Regulation clause(s) is/are incorporated by reference (48 CFR CH. 1):

CLAUSE	TITLE AND DATE
52.202-1	DEFINITIONS (NOV 2013)
52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011)
52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (OCT 2018)
52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (OCT 2018)
52.204-18	COMMERCIAL AND GOVERNMENT ENTITY CODE MAINTENANCE (OCT 2018)
52.204-19	INCORPORATION BY REFERENCE OF REPRESENTATIONS AND CERTIFICATIONS (DEC 2014)
52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED OR PROPOSED FOR DEBARMENT (OCT 2015)
52.209-9	UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS (JUL 2013)
52.213-4	TERMS AND CONDITIONS-SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (OCT 2018)
52.216-7	ALLOWABLE COST AND PAYMENT (JUN 2013)

Unclassified

52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)

52.222-19 CHILD LABOR – COOPERATION WITH AUTHORITIES AND REMEDIES (JAN 2018)

52.222-50 COMBATING TRAFFICKING IN PERSONS (FEB 2009)

52.223-18 ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (AUG 2011)

52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUNE 2008)

52.225-14 INCONSISTENCY BETWEEN ENGLISH VERSION AND TRANSLATION OF CONTRACT (FEB 2000)

52.225-19 CONTRACTOR PERSONNEL IN A DESIGNATED OPERATIONAL AREA OR SUPPORTING A DIPLOMATIC MISSION OUTSIDE THE UNITED STATES (MAR 2008)

52.228-3 Workers' Compensation Insurance (Defense Base Act).

52.228-4 WORKERS' COMPENSATION AND WAR-HAZARD INSURANCE OVERSEAS (APR 1984)

52.228-5 INSURANCE - WORK ON A GOVERNMENT INSTALLATION (JAN 1997)

52.228-11 PLEDGES OF ASSETS (JAN 2012)

52.228-13 ALTERNATIVE PAYMENT PROTECTION (JULY 2000)

52.228-14 IRREVOCABLE LETTER OF CREDIT (NOV 2014)

52.229-6 TAXES - FOREIGN FIXED-PRICE CONTRACTS (FEB 2013)

52.229-7 TAXES- FIXED PRICE CONTRACTS WITH FOREIGN GOVERNMENTS (FEB 2013)

52.232-5 PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS (MAY 2014)

52.232-8 DISCOUNTS FOR PROMPT PAYMENT (FEB 2002)

52.232-11 EXTRAS (APR 1984)

52.232-18 AVAILABILITY OF FUNDS (APR 1984)

Unclassified

52.232-22 LIMITATION OF FUNDS (APR 1984)

52.232-25 PROMPT PAYMENT (JULY 2013)

52.232-27 PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (MAY 2014)

52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER - SYSTEM FOR AWARD MANAGEMENT (OCT 2018)

52.232-34 PAYMENT BY ELECTRONIC FUNDS TRANSFER – OTHER THAN SYSTEM FOR AWARD MANAGEMENT (JULY 2013)

52.233-1 DISPUTES (MAY 2014) *Alternate I (DEC 1991)*

52.233-3 PROTEST AFTER AWARD (AUG 1996)

52.236-2 DIFFERING SITE CONDITIONS (APR 1984)

52.236-3 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK (APR 1984)

52.236-5 MATERIAL AND WORKMANSHIP (APR 1984)

52.236-6 SUPERINTENDENCE BY THE CONTRACTOR (APR 1984)

52.236-7 PERMITS AND RESPONSIBILITIES (NOV 1991)

52.236-8 OTHER CONTRACTS (APR 1984)

52.236-9 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS (APR 1984)

52.236-10 OPERATIONS AND STORAGE AREAS (APR 1984)

52.236-11 USE AND POSSESSION PRIOR TO COMPLETION (APR 1984)

52.236-12 CLEANING UP (APR 1984)

52.236-13 ACCIDENT PREVENTION (NOV 1991)

52.236-14 AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984)

52.236-15 SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)

52.236-21 SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FEB 1997)

Unclassified

52.236-26 PRECONSTRUCTION CONFERENCE (FEB 1995)

52.242-14 SUSPENSION OF WORK (APR 1984)

52.243-4 CHANGES (JUN 2007)

52.243-5 CHANGES AND CHANGED CONDITIONS (APR 1984)

52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (AUG 2018)

52.245-2 GOVERNMENT PROPERTY INSTALLATION OPERATION SERVICES (APR 2012)

52.245-9 USE AND CHARGES (APR 2012)

52.246-12 INSPECTION OF CONSTRUCTION (AUG 1996)

52.246-17 WARRANTY OF SUPPLIES OF A NONCOMPLEX NATURE (JUN 2003)

52.246-21 WARRANTY OF CONSTRUCTION (MAR 1994)

52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (APR 2012) *Alternate I (SEPT 1996)*

52.249-10 DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984)

52.249-14 EXCUSABLE DELAYS (APR 1984)

The following Department of State Acquisition Regulation (DOSAR) clause(s) is/are set forth in full text:

652.204-70 DEPARTMENT OF STATE PERSONAL IDENTIFICATION CARD ISSUANCE PROCEDURES (MAY 2011)

(a) The Contractor shall comply with the Department of State (DOS) Personal Identification Card Issuance Procedures for all employees performing under this contract who require frequent and continuing access to DOS facilities, or information systems. The Contractor shall insert this clause in all subcontracts when the subcontractor's employees will require frequent and continuing access to DOS facilities, or information systems.

(b) The DOS Personal Identification Card Issuance Procedures may be accessed at *http://www.state.gov/m/ds/rls/rpt/c21664.htm* .

(End of clause)

652.229-71 PERSONAL PROPERTY DISPOSITION AT POSTS ABROAD (AUG 1999)

Regulations at 22 CFR Part 136 require that U.S. Government employees and their families do not profit personally from sales or other transactions with persons who are not

Unclassified

themselves entitled to exemption from import restrictions, duties, or taxes. Should the Contractor experience importation or tax privileges in a foreign country because of its contractual relationship to the United States Government, the Contractor shall observe the requirements of 22 CFR Part 136 and all policies, rules, and procedures issued by the chief of mission in that foreign country.

(End of clause)

CONTRACTOR IDENTIFICATION (JULY 2008)

Contract performance may require contractor personnel to attend meetings with government personnel and the public, work within government offices, and/or utilize government email.

Contractor personnel must take the following actions to identify themselves as non-federal employees:

1) Use an e-mail signature block that shows name, the office being supported and company affiliation (e.g. "John Smith, Office of Human Resources, ACME Corporation Support Contractor");
2) Clearly identify themselves and their contractor affiliation in meetings;
3) Identify their contractor affiliation in Departmental e-mail and phone listings whenever contractor personnel are included in those listings; and
4) Contractor personnel may not utilize Department of State logos or indicia on business cards.

(End of clause)

652.236-70 ADDITIONAL SAFETY MEASURES (OCT 2017)

In addition to the safety/accident prevention requirements of FAR 52.236-13, Accident Prevention Alternate I, the contractor shall comply with the following additional safety measures.

(a) *High Risk Activities*. If the project contains any of the following high risk activities, the contractor shall follow the section in the latest edition, as of the date of the solicitation, of the U.S. Army Corps of Engineers Safety and Health manual, EM 385-1-1, that corresponds to the high risk activity. Before work may proceed, the contractor must obtain approval from the COR of the written safety plan required by FAR 52.236-13, Accident Prevention Alternate I (see paragraph (f) below), containing specific hazard mitigation and control techniques.

(1) Scaffolding;

(2) Work at heights above 1.8 meters;

(3) Trenching or other excavation greater than one (1) meter in depth;

(4) Earth-moving equipment and other large vehicles;

(5) Cranes and rigging;

Unclassified

(6) Welding or cutting and other hot work;

(7) Partial or total demolition of a structure;

(8) Temporary wiring, use of portable electric tools, or other recognized electrical hazards. Temporary wiring and portable electric tools require the use of a ground fault circuit interrupter (GFCI) in the affected circuits; other electrical hazards may also require the use of a GFCI;

(9) Work in confined spaces (limited exits, potential for oxygen less than 19.5 percent or combustible atmosphere, potential for solid or liquid engulfment, or other hazards considered to be immediately dangerous to life or health such as water tanks, transformer vaults, sewers, cisterns, etc.);

(10) Hazardous materials - a material with a physical or health hazard including but not limited to, flammable, explosive, corrosive, toxic, reactive or unstable, or any operations, which creates any kind of contamination inside an occupied building such as dust from demolition activities, paints, solvents, etc.; or

(11) Hazardous noise levels as required in EM 385-1 Section 5B or local standards if more restrictive.

(b) *Safety and Health Requirements*. The contractor and all subcontractors shall comply with the latest edition of the U.S. Army Corps of Engineers Safety and Health manual EM 385-1-1, or OSHA 29 CFR parts 1910 or 1926 if no EM 385-1-1 requirements are applicable, and the accepted contractor's written safety program.

(c) *Mishap Reporting*. The contractor is required to report **immediately** all mishaps to the COR and the contracting officer. A "mishap" is any event causing injury, disease or illness, death, material loss or property damage, or incident causing environmental contamination. The mishap reporting requirement shall include fires, explosions, hazardous materials contamination, and other similar incidents that may threaten people, property, and equipment.

(d) *Records*. The contractor shall maintain an accurate record on all mishaps incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to or theft of property, materials, supplies, or equipment. The contractor shall report this data in the manner prescribed by the contracting officer.

(e) *Subcontracts*. The contractor shall insert this clause, including this paragraph (e), with appropriate changes in the designation of the parties, in subcontracts.

(f) *Written program*. The plan required by paragraph (f)(1) of the clause entitled "Accident Prevention Alternate I" shall be known as the Site Safety and Health Plan (SSHP) and shall address any activities listed in paragraph (a) of this clause, or as otherwise required by the contracting officer/COR.

Unclassified

(1) The SSHP shall be submitted at least 10 working days prior to commencing any activity at the site.

(2) The plan must address developing activity hazard analyses (AHAs) for specific tasks. The AHAs shall define the activities being performed and identify the work sequences, the specific anticipated hazards, site conditions, equipment, materials, and the control measures to be implemented to eliminate or reduce each hazard to an acceptable level of risk. Work shall not begin until the AHA for the work activity has been accepted by the COR and discussed with all engaged in the activity, including the Contractor, subcontractor(s), and Government on-site representatives.

(3) The names of the Competent/Qualified Person(s) required for a particular activity (for example, excavations, scaffolding, fall protection, other activities as specified by EM 385-1-1) shall be identified and included in the AHA. Proof of their competency/qualification shall be submitted to the contracting officer or COR for acceptance prior to the start of that work activity. The AHA shall be reviewed and modified as necessary to address changing site conditions, operations, or change of competent/qualified person(s).

(End of clause)

652.242-73 AUTHORIZATION AND PERFORMANCE (AUG 1999)

(a) The Contractor warrants the following:

(1) That is has obtained authorization to operate and do business in the country or countries in which this contract will be performed;

(2) That is has obtained all necessary licenses and permits required to perform this contract; and,

(3) That it shall comply fully with all laws, decrees, labor standards, and regulations of said country or countries during the performance of this contract.

(b) If the party actually performing the work will be a subcontractor or joint venture partner, then such subcontractor or joint venture partner agrees to the requirements of paragraph (a) of this clause.

(End of clause)

652.243-70 NOTICES (AUG 1999)

Any notice or request relating to this contract given by either party to the other shall be in writing. Said notice or request shall be mailed or delivered by hand to the other party at the address provided in the schedule of the contract. All modifications to the contract must be made in writing by the Contracting Officer.

(End of clause)

Unclassified

I. LIST OF ATTACHMENTS

ATTACHMENT NUMBER	DESCRIPTION OF ATTACHMENT	NUMBER OF PAGES
Attachment 1	Sample Bank Letter of Guaranty	1
Attachment 2	Breakdown of Price by Divisions of Specifications	1
Attachment 3	Specifications (SOW)	14
Attachment 4	Drawings for Telecom Conduit and Cabling	4
Attachment 5	Specifications (SOW) for Technical Security Conduit and Cabling	8
Attachment 6	Communications Backbone Cabling Standards	7
Attachment 7	Key Concerns	4
Attachment 8	Technical Design Specification Locations	1
Attachment 9	Old Manhole Interconnections and Cover Replacement	2
Attachment 10	Detail Point Requisites	1

Unclassified

J. QUOTATION INFORMATION

The Offeror shall include Defense Base Act (DBA) insurance premium costs covering employees. The offeror may obtain DBA insurance directly from any Department of Labor approved providers at the DOL website at *http://www.dol.gov/owcp/dlhwc/lscarrier.htm*

A. QUALIFICATIONS OF OFFERORS

Offerors/quoters must be technically qualified and financially responsible to perform the work described in this solicitation. At a minimum, each Offeror/Quoter must meet the following requirements:

(1) Be able to understand written and spoken English;
(2) Have an established business with a permanent address and telephone listing;
(3) Be able to demonstrate prior construction experience with suitable references;
(4) Have the necessary personnel, equipment and financial resources available to perform the work;
(5) Have all licenses and permits required by local law;
(6) Meet all local insurance requirements;
(7) Have the ability to obtain or to post adequate performance security, such as bonds, irrevocable letters of credit or guarantees issued by a reputable financial institution;
(8) Have no adverse criminal record; and
(9) Have no political or business affiliation which could be considered contrary to the interests of the United States.

B. SUBMISSION OF QUOTATIONS

This solicitation is for the performance of the construction services described in SCOPE OF WORK, and the Attachments which are a part of this request for quotation.

Each quotation must consist of the following:		
VOLUME	TITLE	NUMBER OF COPIES*
I	Standard Form 1442 including a completed Attachment 2, "BREAKDOWN OF PROPOSAL PRICE BY DIVISIONS OF SPECIFICATIONS	1
II	Performance schedule in the form of a "bar chart" and Business Management/Technical Proposal	1

Unclassified

Submit the complete quotation to the address indicated below:

U.S. Embassy Tirana
GSO/Procurement – PR8235486
Rruga e Elbasanit, Nr. 103
TIRANE

Electronic Quotations must be submitted at the below email address:

ProcurementTirana@state.gov

The Offeror/Quoter shall identify and explain/justify any deviations, exceptions, or conditional assumptions taken with respect to any of the instructions or requirements of this request for quotation in the appropriate volume of the offer.

Volume II: Performance schedule and Business Management/Technical Proposal.

(a) Present the performance schedule in the form of a "bar chart" indicating when the various portions of the work will be commenced and completed within the required schedule. This bar chart shall be in sufficient detail to clearly show each segregable portion of work and its planned commencement and completion date.

(b) The Business Management/Technical Proposal shall be in two parts, including the following information:

Proposed Work Information - Provide the following:

(1) A list of the names, addresses and telephone numbers of the owners, partners, and principal officers of the Offeror;

(2) The name and address of the Offeror's field superintendent for this project;

(3) A list of the names, addresses, and telephone numbers of subcontractors and principal materials suppliers to be used on the project, indicating what portions of the work will be performed by them; and,

Experience and Past Performance - List all contracts and subcontracts your company has held over the past three years for the same or similar work. Provide the following information for each contract and subcontract:

(1) Customer's name, address, and telephone numbers of customer's lead contract and technical personnel;

(2) Contract number and type;

(3) Date of the contract award place(s) of performance, and completion dates; Contract dollar value;

(4) Brief description of the work, including responsibilities; and

(5) Any litigation currently in process or occurring within last 5 years.

Unclassified

C. 52.236-27 SITE VISIT (CONSTRUCTION) (FEB 1995)

(a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.

(b) A site visit has been scheduled for August 30, 2019 at 09:30AM.

(c) Participants will meet at Rilindja Ridge Housing Compound.

(d) Requests for site-visit participation should be addressed to haxhis@state.gov, no later than August 29, 2019 at 2:00PM.

D. MAGNITUDE OF CONSTRUCTION PROJECT

It is anticipated that the range in price of this contract will be:

Between $25,000 and $100,000.

E. LATE QUOTATIONS. Late quotations shall be handled in accordance with FAR.

F. 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates the following provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer.

Also, the full text of a solicitation provision may be accessed electronically at: *http://acquisition.gov/far/index.html/* or *http://farsite.hill.af.mil/vffara.htm*. Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at *http://www.statebuy.state.gov* to access the link to the FAR, or use of an Internet "search engine" (for example, Google, Yahoo or Excite) is suggested to obtain the latest location of the most current FAR.

The following Federal Acquisition Regulation provisions are incorporated by reference (48 CFR CH. 1):

PROVISION	TITLE AND DATE
52.204-7	SYSTEM FOR AWARD MANAGEMENT (OCT 2018)

Unclassified

52.204-16	COMMERCIAL AND GOVERNMENT ENTITY CODE REPORTING (JUL 2016)
52.214-34	SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE (APR 1991)
52.215-1	INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (JAN 2004)

Unclassified

K. EVALUATION CRITERIA

Award will be made to the lowest priced, acceptable, responsible quoter. The Government reserves the right to reject quotations that are unreasonably low or high in price.

The Government will determine acceptability by assessing the offeror's compliance with the terms of the RFQ. The Government will determine responsibility by analyzing whether the apparent successful quoter complies with the requirements of FAR 9.1, including:

- ability to comply with the required performance period, taking into consideration all existing commercial and governmental business commitments;
- satisfactory record of integrity and business ethics;
- necessary organization, experience, and skills or the ability to obtain them;
- necessary equipment and facilities or the ability to obtain them; and
- otherwise, qualified and eligible to receive an award under applicable laws and regulations.

Unclassified

SECTION L - REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS OR QUOTERS

L.1 52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

"Common parent", as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Taxpayer Identification Number (TIN)", as used in this provision, means the number required by the IRS to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision in order to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325 (d), reporting requirements of 26 USC 6041, 6041A, and 6050M and implementing regulations issued by the Internal Revenue Service (IRS). If the resulting contract is subject to the reporting requirements described in FAR 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments

(c) otherwise due under the contract.

(d) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 USC 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(e) Taxpayer Identification Number (TIN).

TIN: _____

- ☐ TIN has been applied for.
- ☐ TIN is not required because:
  - ☐ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the U.S. and does not have an office or place of business or a fiscal paying agent in the U.S.;
  - ☐ Offeror is an agency or instrumentality of a foreign government;
  - ☐ Offeror is an agency or instrumentality of the Federal Government.

(e) Type of Organization.

- ☐ Sole Proprietorship;
- ☐ Partnership;
- ☐ Corporate Entity (not tax exempt);
- ☐ Corporate Entity (tax exempt);
- ☐ Government Entity (Federal, State or local);
- ☐ Foreign Government;

Unclassified

☐ International organization per 26 CFR 1.6049-4;
☐ Other _____.

(f) Common Parent.
☐ Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this clause.
☐ Name and TIN of common parent:
Name _____
TIN_____

(End of provision)

52.204-8 Annual Representations and Certifications (OCT 2018)

(a) (1) The North American Industry classification System (NAICS) code for this acquisition is _____ *[insert NAICS code]*.

(2) The small business size standard is _____ *[insert size standard]*.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) (1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7, System for Award Management, is not included in this solicitation, and the Offeror has an active registration in the System for Award Management (SAM), the Offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The Offeror shall indicate which option applies by checking one of the following boxes:

[_] (i) Paragraph (d) applies.

[_] (ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c) (1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—

Unclassified

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed $250,000.

(iii) 52.203-18, Prohibition on Contracting with Entities that Require Certain Internal Confidentiality Agreements or Statements—Representation. This provision applies to all solicitations.

(iv) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.

(v) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(vi) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations—Representation.

(vii) 52.209-5; Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

(viii) 52.209-11, Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. This provision applies to all solicitations.

(ix) 52.214-14, Place of Performance--Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.

Unclassified

(x) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.

(xi) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.

(A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.

(B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.

(xii) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.

(xiii) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.

(xiv) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.

(xv) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.

(xvi) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

(xvii) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA- designated items.

(xviii) 52.223-22, Public Disclosure of Greenhouse Gas Emissions and Reduction Goals—Representation. This provision applies to solicitations that include the clause at 52.204-7.

Unclassified

(xix) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.

(xx) 52.225-4, Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225- 3.

(A) If the acquisition value is less than $25,000, the basic provision applies.

(B) If the acquisition value is $25,000 or more but is less than $50,000, the provision with its Alternate I applies.

(C) If the acquisition value is $50,000 or more but is less than $80,317, the provision with its Alternate II applies.

(D) If the acquisition value is $80,317 or more but is less than $100,000, the provision with its Alternate III applies.

(xxi) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xxii) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan--Certification. This provision applies to all solicitations.

(xxiii) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran—Representation and Certification. This provision applies to all solicitations.

(xxiv) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.

(2) The following representations or certifications are applicable as indicated by the Contracting Officer:

___ (i) 52.204-17, Ownership or Control of Offeror.

___ (ii) 52.204-20, Predecessor of Offeror.

___ (iii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

Unclassified

___ (iv) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Certification.

___ (v) 52.222-52 Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Certification.

___ (vi) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

___ (vii) 52.227-6, Royalty Information.

___ (A) Basic.

___ (B) Alternate I.

___ (viii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The Offeror has completed the annual representations and certifications electronically in SAM accessed through https://www.sam.gov. After reviewing the SAM information, the Offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of Provision)

Unclassified

L.3. 52.225-18 PLACE OF MANUFACTURE (SEPT 2006)

(a) *Definitions*. As used in this clause—

" Manufactured end product" means any end product in Federal Supply Classes (FSC) 1000-9999, except—

(1) FSC 5510, Lumber and Related Basic Wood Materials;
(2) Federal Supply Group (FSG) 87, Agricultural Supplies;
(3) FSG 88, Live Animals;
(4) FSG 89, Food and Related Consumables;
(5) FSC 9410, Crude Grades of Plant Materials;
(6) FSC 9430, Miscellaneous Crude Animal Products, Inedible;
(7) FSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
(8) FSC 9610, Ores;
(9) FSC 9620, Minerals, Natural and Synthetic; and
(10) FSC 9630, Additive Metal Materials.

"Place of manufacture" means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

(b) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly—

(1) [ ] In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or
(2) [ ] Outside the United States.

(End of provision)

L.4 AUTHORIZED CONTRACTOR ADMINISTRATOR

If the offeror does not fill-in the blanks below, the official who signed the offer will be deemed to be the offeror's representative for Contract Administration, which includes all matters pertaining to payments.

Name:
Telephone Number:
Address:

Unclassified

L.5 52.225-20 PROHIBITION ON CONDUCTING RESTRICTED BUSINESS OPERATIONS IN SUDAN – CERTIFICATION (AUG 2009)

(a) *Definitions*. As used in this provision—

"Business operations" means engaging in commerce in any form, including by acquiring, developing, maintaining, owning, selling, possessing, leasing, or operating equipment, facilities, personnel, products, services, personal property, real property, or any other apparatus of business or commerce.

"Marginalized populations of Sudan" means—

(1) Adversely affected groups in regions authorized to receive assistance under section 8(c) of the Darfur Peace and Accountability Act (Pub. L. 109-344) (50 U.S.C. 1701 note); and

(2) Marginalized areas in Northern Sudan described in section 4(9) of such Act.

"Restricted business operations" means business operations in Sudan that include power production activities, mineral extraction activities, oil-related activities, or the production of military equipment, as those terms are defined in the Sudan Accountability and Divestment Act of 2007 (Pub. L. 110-174). Restricted business operations do not include business operations that the person conducting the business can demonstrate—

(1) Are conducted under contract directly and exclusively with the regional government of southern Sudan;

(2) Are conducted pursuant to specific authorization from the Office of Foreign Assets Control in the Department of the Treasury, or are expressly exempted under Federal law from the requirement to be conducted under such authorization;

(3) Consist of providing goods or services to marginalized populations of Sudan;

(4) Consist of providing goods or services to an internationally recognized peacekeeping force or humanitarian organization;

(5) Consist of providing goods or services that are used only to promote health or education; or

(6) Have been voluntarily suspended.

(b) *Certification*. By submission of its offer, the offeror certifies that it does not conduct any restricted business operations in Sudan.

(End of provision)

L.6. 52.209-2 PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS REPRESENTATION (NOV 2015)

(a) Definitions. "Inverted domestic corporation" and "subsidiary" have the meaning given in the clause of this contract entitled Prohibition on Contracting with Inverted Domestic Corporations (52.209-10).

Unclassified

(b) Government agencies are not permitted to use appropriated (or otherwise made available) funds for contracts with either an inverted domestic corporation, or a subsidiary of an inverted domestic corporation, unless the exception at 9.108-2(b) applies or the requirement is waived in accordance with the procedures at 9.108-4.

(c) Representation. The Offeror represents that.

(1) It □ is, □ is not an inverted domestic corporation; and

(2) It □ is, □ is not a subsidiary of an inverted domestic corporation.

(End of provision)

Unclassified

ATTACHMENT #1 - SAMPLE LETTER OF BANK GUARANTY

Place [ ]
Date [ ]

Contracting Officer
U.S. Embassy, ***Tirana***
Rruga e Elbasanit, Nr. 103

Letter of Guaranty No. _____

SUBJECT: Performance and Guaranty

The Undersigned, acting as the duly authorized representative of the bank, declares that the bank hereby guarantees to make payment to the Contracting Officer by check made payable to the Treasurer of the United States, immediately upon notice, after receipt of a simple written request from the Contracting Officer, immediately and entirely without any need for the Contracting Officer to protest or take any legal action or obtain the prior consent of the Contractor to show any other proof, action, or decision by an other authority, up to the sum of **[*amount equal to 20% of the contract price in U.S. dollars during the period ending with the date of final acceptance and 10% of the contract price during contract guaranty period*]**, which represents the deposit required of the Contractor to guarantee fulfillment of his obligations for the satisfactory, complete, and timely performance of the said contract **[*contract number*]** for **[*description of work*]** at **[*location of work*]** in strict compliance with the terms, conditions and specifications of said contract, entered into between the Government and **[*name of contractor*]** of **[*address of contractor*]** on **[*contract date*],** plus legal charges of 10% per annum on the amount called due, calculated on the sixth day following receipt of the Contracting Officer's written request until the date of payment.

The undersigned agrees and consents that said contract may be modified by Change Order or Supplemental Agreement affecting the validity of the guaranty provided, however, that the amount of this guaranty shall remain unchanged.

The undersigned agrees and consents that the Contracting Officer may make repeated partial demands on the guaranty up to the total amount of this guaranty, and the bank will promptly honor each individual demand.

This letter of guaranty shall remain in effect until 3 months after completion of the guaranty period of Contract requirement.

Depository Institution: **[*name*]**
Address: _____
Representatives: _____ Location: _____
_____ State of Inc.: _____
_____ Corporate Seal:
_____

Certificate of Authority is attached evidencing authority of the signer to bind the bank to this document.

Unclassified

ATTACHMENT #2 - UNITED STATES DEPARTMENT OF STATE
BREAKDOWN OF PRICE BY DIVISIONS OF SPECIFICATIONS

(1) DIVISION/DESCRIPTION (2) LABOR (3) MATERIALS (4) OVERHEAD
(5) PROFIT (6) TOTAL

1. General Requirements
2. Site Work

3. Concrete
4. Masonry

5. Metals
6. Wood and Plastic

7. Thermal and Moisture
8. Doors and Windows

9. Finishes
10. Specialties

11. Equipment
12. Furnishings

13. Special Construction
14. Conveying Systems

15. Mechanical
16. Electrical

TOTAL: _____

Albanian Leke
Allowance Items:

PROPOSAL PRICE: _____

TOTAL: **Albanian Leke**

Alternates (list separately; do not total):

Offeror: _____ ***Date*** _____

PRICE BREAKDOWN BY DIVISION OF SPECIFICATION ITEMS

Unclassified

ATTACHMENT #3 – SPECIFICATIONS – SCOPE OF WORK

Project: RILINDJA RIDGE: TELEPHONE, INTERNET AND TECHNICAL SECURITY INFRASTRUCTURE AND CABLING PROJECT

1. Introduction

The United States Embassy Tirana is seeking for a General contractor to assist with Telephone, Internet and Technical Security Infrastructure and Cabling Project, which is located at Rilindja Ridge Compound. The general contractor shall submit a proposal as described in this Statement of Work (SOW). The SOW provides all the information required for this RFQ.

2. Project Information

Project Owner: U.S. Embassy Tirana, Albania.
Project Name: Telephone, Internet and Technical Security Infrastructure and Cabling Project
Project Location and address: Rilindja Ridge Residencies

Project Goals: Providing trenching, conduit and cabling infrastructure to support telephone, internet and technical security within the applied standards.

3. Important factors of project executions.

Internet and Telephone Project

- All cabinets, cables and other materials should be rated for outdoor, all-weather use.
- Conduits installation depth: up to 50 cm.

The depth that conduits should be buried is determined by the soil conditions and surface usage. In colder areas, conduits are typically buried below the frost line to prevent the cables from being damaged by ground frost heaves.

- Keep the trenches as straight as possible.

Conduit trenches should be straight, and the trench bottom should be flat and level. Backfill can also be used to distribute the cable load evenly and protect the cables.

- Warning labels should be buried directly above the plastic pipe.

  Conduits warning cables are typically buried directly above the cables to warn future digging operations. Or concrete slabs can be buried below the warning label but above the cables to provide even more protection.

- Plastic pipes minimum bending radius should always be observed during installation.

Unclassified

- All cabling should be installed in conduit.
- Except where noted in this document, contractor shall adhere to all wiring standards contained in Attachment 6– Communications Backbone Cabling Standards.

Technical Security Project

See Attachment 5– Specifications (SOW) for Technical Security Conduit and Cabling.

4. Statement of Work

4.1. Brief Description

This statement of work provides the information required for this RFQ. The contractor is not limited to the minimum requirements and can make suggestions.
The project includes all the civil constructions works as, trenching works, concrete works, materials supply such as propylene pipes, plastic manholes, equipment's and labor force to perform the project for telephone, internet and technical security distributions system. The project further includes installing telephone intermediate distribution frames (IDFs), telephone backbone cabling, fiber backbone installation, technical security cabling, labeling and documentation. The Contractor shall submit all the designs and technical specifications. All work shall be in strict accordance with specification, applicable drawings, local regulations, permits, and Building Codes.

4.2. General Requirements

A. The contractor shall provide all tools, transportation, supplies, equipment, labor and supervision necessary to provide the implementation of the design.

B. The contactor shall provide all materials including additional conduit, fiber, termination boxes and fiber receptacles.

C. The Contractor must follow all working safety regulations and provide their personnel with appropriate safety equipment like gloves, safety shoes, eye protection, etc

D. The contractor shall provide all technical safety rules in construction areas, protection barriers and safety signs such as temporary plastic fencing mesh, plastic tape, to notify the areas is under construction.

E. All damaged areas during the working process should be restored to its original condition by Contractor.

F. **Preparation works**

- The contractor shall identify and mark the entire distribution network.
- Prior to commencing any excavation work, the Contractor shall establish a horizontal and vertical survey, record existing ground elevations and stake the location of trenches to be excavated.
- The contractor shall provide sample materials and costs and allow the Embassy COR to decide which items will be used prior to ordering.
- Safety Employee Briefing.
- Safety Site Inspection.
- Safety Warning Signs Installed.

Unclassified

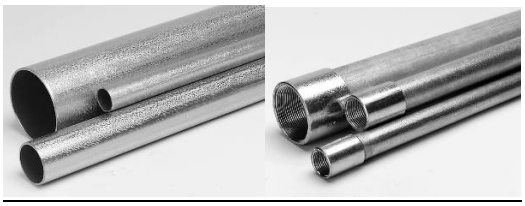
- Investigate the soil condition in order to determine the installation depth, whether duct should be used, the type of conduits should be used and plowing equipment needed.

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

G. Install Conduit at Main Entrance

The contractor shall install conduit at the main entrance to create a second path from the telephone/network room to the new trench works. The contractor should use rigid metal conduit in the Entrance point. The length of the conduit shall be 5-6 meters, as it required, from the Manhole to Main Connection Point.

Note: After the site visit, the Contractor is responsible to recommend and install the right pipe within the applicable standards.



Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

H. Trenching works

Note: All underground utilities should be considering by the contractor before starting the digging the trenching. Please see Drawing A-1

- The contractor shall include all excavations, preparation, and compaction.
- A well prepared, uniform digging and trenching at the correct elevation is essential.
- Due to topographic site conditions the trenching process require to perform by hand tools or by machine.
- Almost 75% of the trenching work need hand tools.
- 25% of the trenching works can be done by machinery.
- The total length of trench is = 1755 mtrs See drawing 1.
- The depth of the trench shall be 65 cm deep (see Drawing 3) for the telephone/internet trenching. Technical security trenching should adhere to the requirements in Attachment 5– Specifications (SOW) for Technical Security Conduit and Cabling.
- The contractor shall remove all the soil

Unclassified

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

I. Preparation before underground pipes installation

- Obtain proper right-of-way permits.
- Identify existing underground utilities such as buried cables, pipes.
- Investigate the soil condition in order to determine the installation depth, whether duct should be used, the type of conduits should be used and plowing equipment needed.

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

J. Partial concrete works.

The contractor shall construct 30 meters concrete curb with reinforcement bars. The concrete curb will protect the conduits from potential damages. See drawing 4 for more specifications. The new curb will be on top of existing trench.

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

K. Soft Backfilling of Trenches (Dry sand surrounding the pipe)

- Every section of the pipeline shall be covered as soon as possible after being lowered into trench, but no section of the line shall be covered without express approval of the COR. Each section shall be backfilled with dry sand after the pipe has been placed in its final position on the trench bottom.

- Backfilling with dry sand shall be done carefully to prevent displacement of the pipe or injury to the pipes and their coating. The backfill material shall completely fill the entire space between the pipe and the trench surfaces, without leaving any voids.
- The backfilling sand shall at minimum 40-50 cm high from the trench bottom. The remain high shall be natural soil.

L. PP polypropylene conduits installation

Internet and Telephone Project

- The contractor shall install two conduits with specifications below within the applied standard for this job.

Unclassified

- Conduits diameter Ø 100 mm (two lines)
- Material-polypropylene
- The total length of conduits to be install is = 3510 meters.
- The contractor shall supply and install all the accessories for junctions and extensions, bends, T, end caps, plug caps, etc.

Technical Security Project

See "Attachment 1 – Technical Security Infrastructure SOW.pdf."

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

M. Manholes installation

Internet and Telephone Project

The contractor shall install polypropylene manholes.

- Each manholes must be with two holes in two sides.
- The total number of manholes type A is= 14 ea
- The total number of manholes type B is=26 ea
- The total number of manholes 80 x 80 cm is 1 ea
- Two pvc conduits shall be installed in manholes in two directions.
- The conduits shall have Ø100 mm.
- Its contractor responsibility to propose the right manholes for this job.
- The manholes shall have min 55 cm depth and the conduits axis must be minimum 40 cm deep. See drawing 2

Technical Security Project

See Attachment 5– Specifications (SOW) for Technical Security Conduit and Cabling.

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

N. Install Telephone IDFs and Telecom Boxes:

Unclassified

The contractor shall install two telephone IDFs. One at the back of House 2 and one at the back of House 15/16.

- Cabinet should be waterproof and lockable
- Punch down type should be BIX blocks.
- IDFs and Telecom boxes should include surge arrestors.

- Install new IDF at the rear of House 2 and House 15/16.
- Install telecom boxes at the rear of each house or duplex (9 installations).
- Document and label all terminations.

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

O. <u>Install Telephone Cabling</u>

Contractor should run all cabling in existing conduit. All cabling should be rated for all-weather, outdoor use.

- Run 100 pair telephone cable in existing conduit from front CAC to the new IDF at House 2.
- Run 100 pair telephone cable in existing conduit from front CAC to the new IDF at House 15/16.
- Terminate 100 pair cable in the new IDFs at the rear of House 2 and House 15/16.
- Run 10 pair telephone cables in existing conduit and terminate in telecom box installed on the rear of each house/duplex from the two new IDFs
    - From House 2 IDF to Houses 3, 4, 5/6, 7/8, 9/10, 11/2
    - From House 15/16 IDF to Houses 13/14, 17/8.
- Run 20 pair telephone cable in existing conduit and terminate in telecom box installed on the rear of House 1 from House 2 IDF.
- Run four telephone cables (two cables to two jacks) from telecom boxes to each house and terminate in existing telephone jacks. Telephone cable can be run in external conduit added in section J or install new conduit as necessary.
- In each house, test telephone connections at all locations to ensure that they are functioning.

Unclassified

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

P. Internet Fiber Backbone Cabling

Contractor should run all cabling in existing conduit. All cabling should be rated for all-weather, outdoor use.

- Run 12 strand single mode cable from the distribution switch at the rear of Houses 2 to Houses 1, 3, 4, 5/6, 7/8, 9/10 and 11/12 in existing conduit (7 cables). Terminate/splice the 12 strand fiber in the telecom boxes.
- Complete termination of existing single mode 48-strand fiber at House 2 and House 15/16.
- Run 12 strand single mode cable from the Telecom box at the rear of House 15/16 to houses 13/14, 17/18 and outbuilding located by the pool (ACC) in existing conduit (3 cables). Terminate/splice the 12 strand fiber in the telecom boxes.
- Document and label all terminations.

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

Q. Internet Horizontal Fiber Cabling and Infrastructure

Contractor should run all cabling in existing conduit. All cabling and infrastructure should be rated for all-weather, outdoor use.

- Install 12 Telecom boxes (1 for each residence or duplex + one extra for House 16 + one for ACC.
- At each house (18):
  - Install conduit from telecom box to the penetration for each house.
  - Install fiber receptacle in each house.
  - Run two single strand fiber from the telecom boxes to the fiber receptacle.
  - Test final connection to ensure network connectivity and loss is within acceptable parameters.

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

R. Technical Security Cabling

See Attachment 5– Specifications (SOW) for Technical Security Conduit and Cabling.

Unclassified

S. Remove Old Cables and Infrastructure

- Disconnect and remove the existing house cable from the IDFs on the lower berm and rear of House 4.
- Remove two old IDFs located at the lower berm of the complex and one located on the back of house 4.
- Remove unneeded telephone cables in infrastructure in each house.
- Remove areal fiber strung between houses.
- Remove unneeded fiber cables and infrastructure in each house.

T. Restoring the area in original conditions.

- The contractor shall restore all the affected area by the project in original site environment conditions.
- Including backfilling.
- Including grass seeding etc.

Note: After the contractor has participated the site visit it is his responsibility to consider all the necessary works for their project proposal. The contractor is not limited to the minimum requirements and can make suggestions!

U. The Contractor shall perform all the works according his project proposal approved by US Embassy.

V. The Contractor shall perform all construction works that are anticipated in his proposal project execution.

W. The contractor shall remove and transfer to another place all inert debris, which will be remain during the demolished process.

X. The storage place for inert and debris shall be contractor responsibility to set the place and transportation out of Embassy Compound.

Y. The Contractor will provide all services as per statement of work and specifications. All construction requirements will conform approved project from US Embassy.

Z. Prior the start (minimum of 5 working days) the contractor will supply names of all employees, all vehicles scheduled to enter the premises and a list of tools that will be used. This all need to be cleared with the Embassy security office.

AA. Contractor must be able to provide written warranty for work in their submitted quote.

BB. Contractor will clean and clear all work areas at the end of each day and on completion of the project. The contractor is responsible for the temporary storage and final removal of all waste and debris.

5. Project Schedule/Phases/Milestones

Unclassified

PROJECT PHASE/ MILESTONE	ESTIMATED START DATE	ESTIMATED COMPLETION DATE	PROJECT STAKEHOLDERS INVOLVED
SITE VISIT	**08/30/2019**	**TBD**	GSO/IRM/FAC/Contractors
SUBMISSION OF BIDS	**09/13/2019**	**TBD**	GSO/IRM/FAC/Contractors
CONSTRUCTION	**TBD**	**TBD**	GSO/IRM/FAC/Contractors

Note: To be determined **TDB**
Site Visit: Before submitting a proposal, each bidder should visit the site of the work to fully inform himself on all existing conditions and limitations, and shall include in the proposal a sum to cover all items included in the contract.

6. Project Data Submittal Requirement (Contractor)

BB.1. Brief Description

The contractor shall submit the all following documents according the item 6.2
All the documentation must be compiled in Methodology form in A4 format, all the technical drawings should be A3.

BB.2. Project data deliverables, method and format.

Submission form: 3 Hard copy + CD
Optional: Electronically
Methodology: A4 format
Drawings: A3 format (CAD-dwg format)
All deliverables shall be submitted in English.

7. Shop Drawings

BB.3. Brief Description.

Upon project award, Build contractor shall deliver to U.S. Embassy the following documentation:

BB.4. Shop Drawing requirement.

- A brief report outlining the findings of the initial site reconnaissance.
- A 100 % design of the proposed systems to be constructed, calculations and stability analysis, specifications and other information:
- A 100% final document technical comments made at 60% before proceeding with the construction phase:
- Produce drawings on a sheet size appropriate for the scale and scope of this project. Minimum size shall be 280mm x 432mm. All project documents shall be in "hard metric." Computer aided design and drafting (CADD) is required for this project. CADD deliverables are required for this project – Autodesk AutoCAD, version 2004 format as a minimum.

Unclassified

- All deliverables shall be submitted in English.

8. Responsibilities and Project Management PM

BB.5. Project Monitoring

- Point of Contact. The COR will be the main point of contact for this Project. The Contractor shall report to the COR on (a) status of the Project, (b) changes in Schedule, (c) accidents and safety issues, (d) disruptions to utility services; and all other important information pertaining to the Project

- COR. A Contracting Officers Representative (COR) will be assigned to ensure quality assurance goals are met. The Contractor shall provide the COR access to the site at all times.

- English Speaking Representative. The Contractor will provide an English-speaking representative on-site during all working hours with the authority to make all decisions on behalf of the Contractor and subcontractors.

- Management Personnel. The Contractor will staff the site, full-time, with a competent senior manager who shall perform project management. Remote project management is not an option. This individual shall keep a detailed written history of the project and shall update the Government weekly.

- Site Security. The Contractor is responsible for on-site security as necessary to ensure no unauthorized access to their work sites. The Contractor is 100% responsible for securing their working materials and equipment. Any damage to facilities or infrastructure, which happens due to a lack of security, will be the responsibility of the Contractor to correct.

- Contractor's Temporary Work Center. The Contractor will be permitted to use a designated area within the contract limits for operation of his construction equipment and office if warranted. If directed by the Contracting Officer, the Contractor shall not receive additional compensation to relocate his operations. The Contractor is responsible for obtaining any required additional mobilization area above that designated. On completion of the contract, all facilities shall be removed from the mobilization area within 5 days of final acceptance by the Contractor and shall be disposed of in accordance with applicable host government laws and regulations. The site shall be cleared of construction debris and other materials and the area restored to its final grade. The Contractor is responsible for maintaining this area in a clear orderly manner.

- Contractor Staff Entrance: The Contractor must abide by US Embassy security regulations related to the work including providing names of staff and vehicles one week prior to work is to be performed.

Unclassified

- Construction Materials: The Contractor may not order any materials for the project until submittals are approved in writing from the Embassy.

- The Contractor can work 7 days per week from 7am – 7pm.

- The US Embassy will provide no materials for this project.
- The Contractor shall commence work under this contract promptly, execute the work diligently, and achieve final completion and acceptance including final cleanup of the premises within the period specified.

- Specifications. The Work shall be governed by the US Embassy Tirana. The Contractor is responsible for compliance with all Building Codes; Work not in compliance with the Codes shall be deemed to be unacceptable.

- Execution. The Work shall be executed in a diligent and workman like manner in accordance with the negotiated fixed-price, this Statement of Work, the Project Schedule, International Building Codes, and the laws of the City of Tirana where applicable.

- Work Hours. Unless otherwise agreed with COR or the Facility Manager, the Work shall be executed during normal Embassy work hours. Night, weekend or holiday work shall not be permitted except as arranged in advance with Facility Management and COR. Embassy holiday schedule is available from Facilities Management or COR. If any aspect of this work is deemed by the Facility Manager to be interruptive of normal embassy operations, the contractor shall be required to perform that portion of the work at night, on Saturdays and Sunday's provision for this should be included in the response to the request for quotation. Working at night, on Saturdays and Sundays will not be considered a change order or a change in field conditions, but rather a standard provision of the contract.

9. Responsibility of the Contractor

- Contractor must be able to provide written warranty for work in their submitted quote.
- The Contractor shall be responsible for the professional quality, technical accuracy, and the coordination of all construction and other services furnished under this contract. The Contractor shall, without additional compensation, correct or revise any errors or deficiencies in its construction and other services.
- The Contractor must follow all working safety regulations and provide their personnel with appropriate safety equipment like gloves, safety shoes, eye protection, etc

Unclassified

- The contractor shall provide all technical safety rules in construction areas, protection barriers and safety signs such as temporary plastic fencing mesh, plastic tape, to notify the areas is under construction.

- The storage place for inert and debris shall be contractor responsibility to set the place and transportation out of Embassy Compound.

- The Contractor will provide all services as per statement of work and specifications. All construction requirements will conform approved project from US Embassy.

- Prior the start (minimum of 5 working days) the contractor will supply names of all employees, all vehicles scheduled to enter the premises and a list of tools that will be used. This all need to be cleared with the Embassy security office.

- Contractor must be able to provide written warranty for work in their submitted quote.

- Contractor will clean and clear all work areas at the end of each day and on completion of the project. The contractor is responsible for the temporary storage and final removal of all waste and debris.

- All damaged areas during the working process should be restored to its original condition by Contractor.

- The Contractor shall identify a Project Site Manager who shall be responsible for the overall management of the project and shall represent the Contractor on the site during construction. The Project Site Manager shall be approved by the COR.

- The Project Site Manager shall attend all project meetings, prepare Status Reports on the project and submit them to the COR. Status Reports shall contain meeting minutes, accomplishments, arising concerns and proposed solutions, any proposed changed orders, and any other pertinent information required to report the progress of performance.

- The Project Site Manager shall respond all to inquiries from Embassy COR within one working day.

- All documentation produced for this project will become the ownership of the Embassy at the completion of this project.

Unclassified

- The Contractor shall verify that all materials, equipment, and systems provide operational dependability. The Contractor assures the completed construction shall be easily maintained or replaced with readily available materials and services.

- Any cost associated with services subcontracted by the Contractor shall be borne by and be the complete responsibility of the Contractor under the fixed price of this contract.

- The Contractor is responsible for safety and shall comply with all local labor laws, regulations, customs and practices pertaining to labor, safety and similar matters. The Contractor shall promptly report all accidents resulting in lost time, disabling, or fatal injuries to the COR.

- The Contractor shall be and remain liable to the Embassy in accordance with applicable law for all damages to the Embassy caused by the Contractor's negligent performance of any of the services furnished under this contract. The rights and remedies for the Embassy provided for under this contract are in addition to any other rights and remedies provided by law.

- The contractor shall provide all tools, transportation, supplies, materials, equipment, labor and supervision necessary to provide the implementation of the design.

- The Contractor must follow all working safety regulations and provide their personnel with appropriate safety equipment like gloves, safety shoes, eye protection, etc.

- The contractor shall provide all technical safety rules in construction areas, protection barriers and safety signs such as temporary plastic fencing mesh, plastic tape, to notify the areas is under construction.

- All damaged areas during the working process should be restored to its original condition by Contractor.

- The storage place for inert and debris shall be contractor responsibility to set the place and transportation out of Embassy Compound.

- The Contractor will provide all services as per statement of work and specifications. All construction requirements will conform approved project from US Embassy.

- Workforce. The contractor shall provide all supervision, skilled and unskilled labor needed to perform the work. The contractor shall prepare list of all the names

Unclassified

of personnel working for the contractor and any subcontractors, with national ID numbers and submit the list to the Facility Manager for vetting of employees by the RSO at least 14 days prior to commencement of work.

- Equipment. The contractor shall also provide the Facility Manager with a list of all equipment, listing the manufacturer, model, serial number of all equipment and material to be used on this project at least seven (7) days prior to the commencement of any work. Any vehicles utilized by the contractor are also considered equipment. The contractor must provide make, year, model number and license plate number. All vehicles will be inspected prior to entering and prior to leaving the premises. The contractor must notify the Facility Manager in writing at least 24 hours in advance of the pending removal of any contractor owned equipment.

- Installer Qualifications: All work under this Scope of work shall be performed by Construction Contractor having experiences in commercial and/or large residential construction works. If a subcontractor is used for any portion of this project, references showing commercial and/or large residential construction experience will be required as well.
- Housekeeping. The contractor is responsible to clean up daily after working. All cleanups should be done and completed before 4:30 PM daily.

- Tools. The Contractor shall be responsible for providing all tools necessary for the proper completion of this project. This shall include, but not be limited to, ladders, scaffolds, mixers, power tools, and hand tools. Use of tools owned by the United States Government will not be permitted and are not a part of this contract.

- Storage. The COR will designate a specific place for on-site storage of tools and materials. Storage areas shall be kept neat and clean at all times.

- Time Table. The contractor will have ninety (365) calendar days to complete this project.

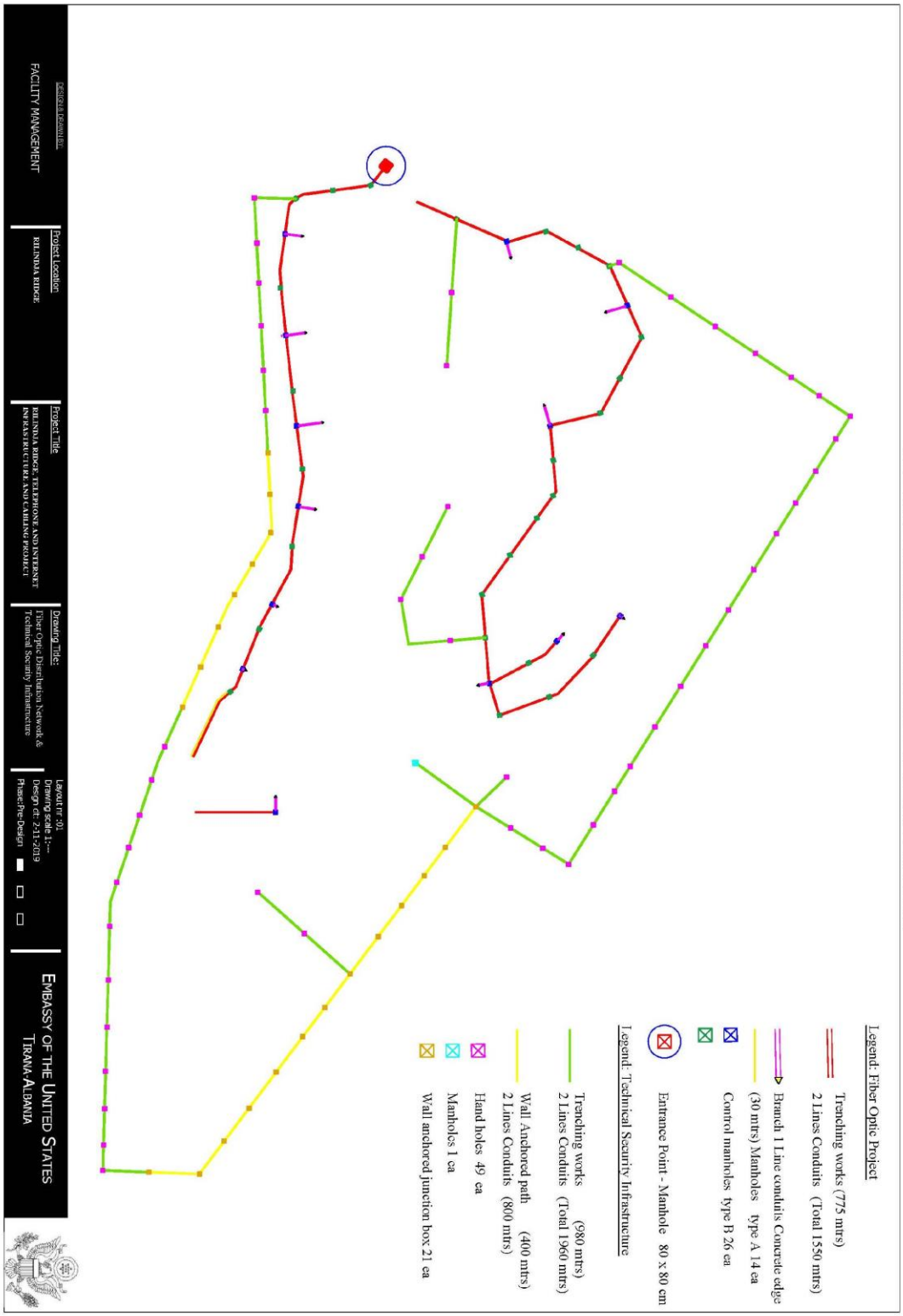
- Personnel. The Contractor shall provide both skilled and unskilled labor, as determined by the Contractor, to complete this project. At no time shall unskilled laborers be left on this project unsupervised.

- Commencement, Prosecution, and Completion of Work
The Contractor will be required to (a) commence work under this contract within five (5) working days after the date the Contractor receives the Notice to Proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than the proposed days in the schedule after NTP. The time stated for completion shall include final cleanup of the premises.

Unclassified

ATTACHMENT #4 – DRAWINGS

Drawing 1



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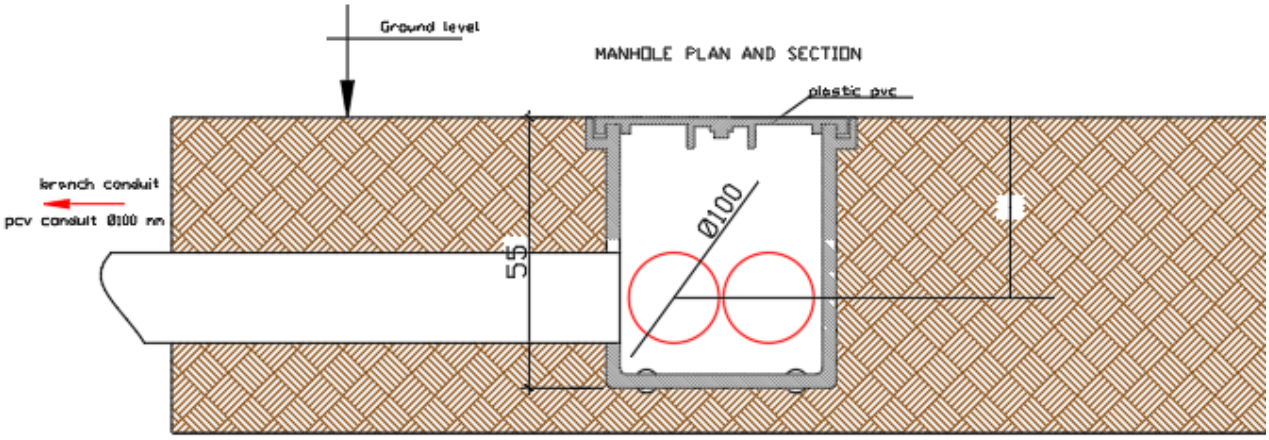
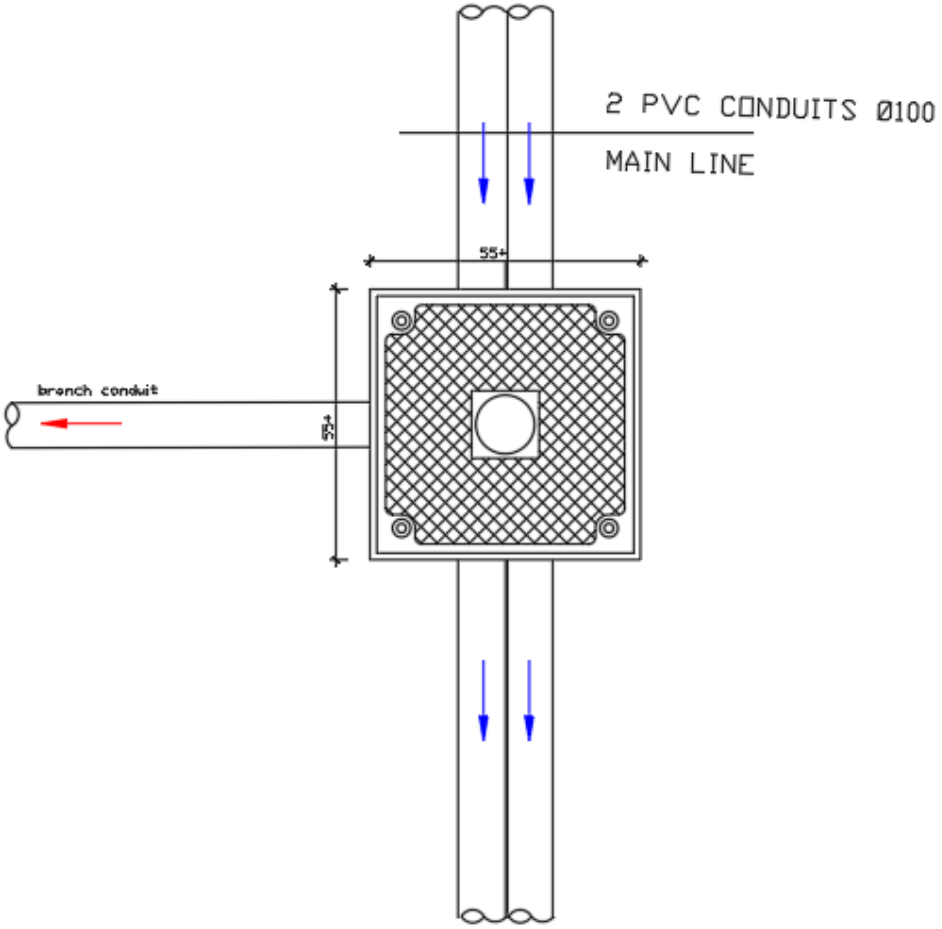
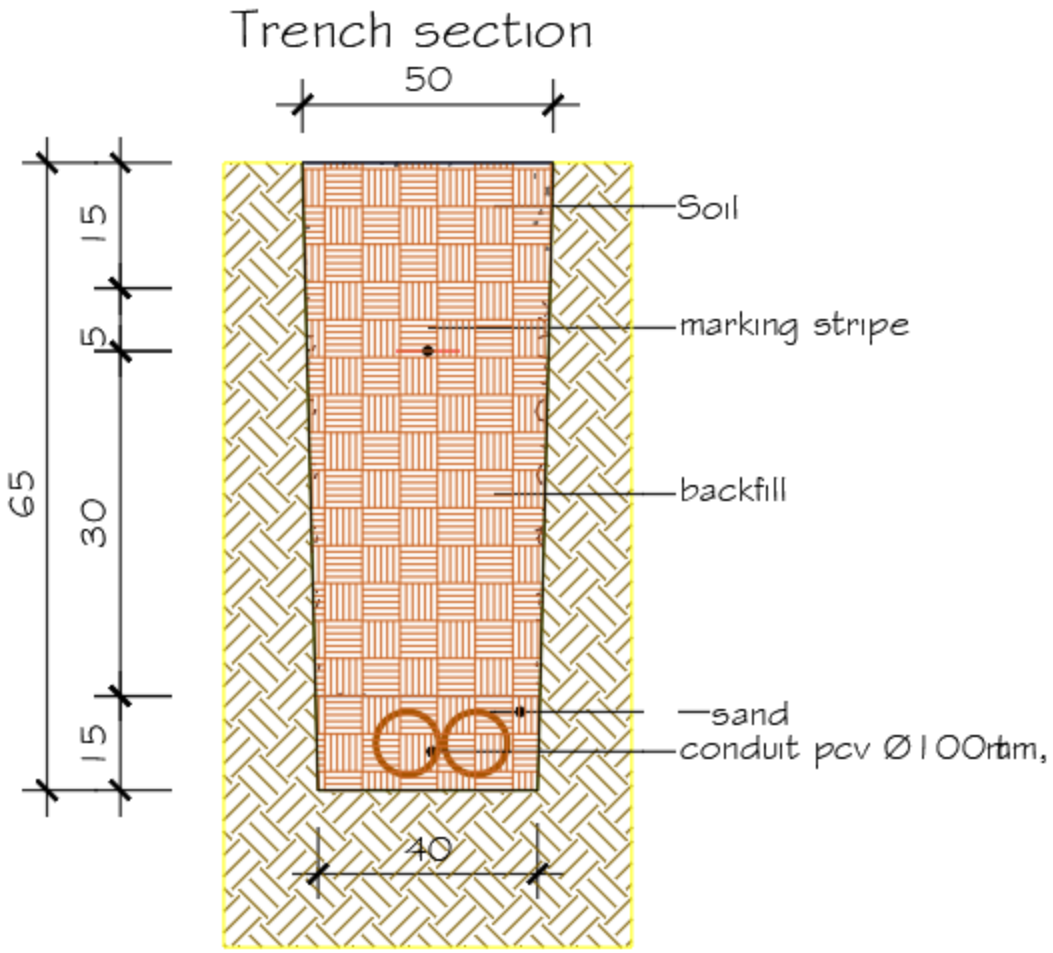
Drawing 2





Drawing 3

Unclassified



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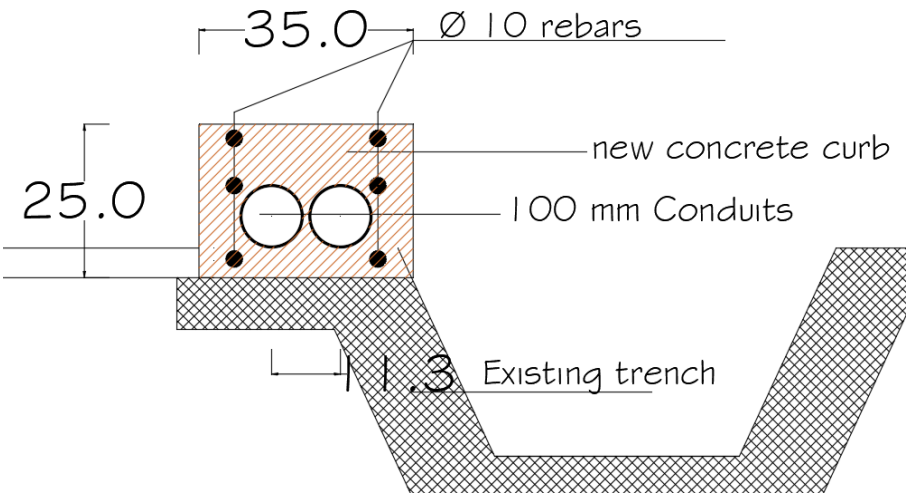
Drawing 4



End of Statement of Work

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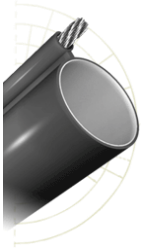
ATTACHMENT #5 - Specifications (SOW) for Technical Security Conduit and Cabling

Residential Technical Security Cable Conduit Infrastructure Systems

RTSC will be implemented with the following setup:

Direct-Buried Conduit: HDPE duct or sleeve that is installed directly in ground with anchored duct support spacers. A distribution line running through all perimeter and as specified in preliminary layout will be composed of a Primary and Secondary 4" conduits. Buried P+S HDPE conduit shall be corrugated in the inner duct. Branching shall be specified as 2" conduit. Primary or small secondary manhole termination even in branching shall keep conduit size to 4" even in small secondary transits.

~ HDPE Conduit Corrugated inner duct ~

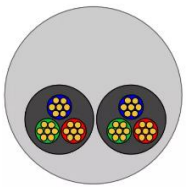


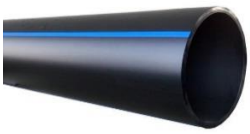
~ HDPE Smooth wall transit ~

Transit from buried section to wall anchored section should be performed with HDPE Smooth wall transit conduit.

This type of system is recommended due to the suburban area and geological setup where special situations exist. Please follow below guidelines for more specifics.

Conduit load





• Load density is significant
• Concentration of circuits via the same route are planned or expected.
• Additional circuits will be added routinely.
• The concentration of circuits, limited Right-of-ways and an expected high number of circuits leaving distribution or master sub-terminations.
(Note: Sleeving (short duct lengths) may be used in advance where utilities are to be installed at a later date.)

General

Unclassified

The information provided below is an addendum for conduit and manhole construction only. All required electrical low/high voltage and communication cabling runs should be evaluated with the vendor after a complete 90% drawing is provided prior to project awarding. Grounding should be taken in consideration applied adjacent to primary manholes.

The vendor is responsible for engineering, designing, permitting, purchasing and constructing all required road crossings, ducts, conduit, splice/pull boxes and manholes according to the standards set forth in this document.

Vendor's responsibility to perform the following:

Pre-Construction Phase
• Provide detailed utility site plans.
• Meet with RSO technical security and FM representative to discuss project scope, schedules and next steps.
• Develop detailed conduit and manhole drawings including profiles and duct runs. (including ducts interconnecting to existing manholes of interest**
• Submit conduit and manhole drawings to RSO for review. **
• Submit drawings to FM and obtain required permitting.
• Sign and return required design drawings and contract.
• Provide project costs.
• Contact RSO technical security to schedule pre-construction meeting.
Construction Phase
• Notify RSO technical security immediately of any changes to schedule, scope or final design.
• Contact RSO technical security to schedule "Pre-work Inspection." **
• Contact RSO technical security to schedule "Junction and duct raceway test." **

Post Construction Phase
• Satisfy all inspections.
• Call RSO technical security to schedule and release RTSC project.

Notice! : Not following specifications/standards in this SOW may cause delays in customer project and additional costs necessary for vendor to complete the job.

CONDUIT

Direct-Buried HDPE Conduit
Primary Perimeter and Secondary Conduit

1. Primary and Secondary conduit will be 4" HDPE minimum inside dimension I.P.S.
2. Vendor shall satisfy specified number, size and configuration of ducts.
3. All direct-buried ducts shall be UL schedule 40.
4. All bends shall be no less than 36" in radius.

Notice!
90-degree bends are allowed in the conduit line (i.e., conduit turn up/terminate at exterior pad) and, wide-radius bend (minimum radius of five feet for this additional bend) will be allowed. If this still will not be sufficient for the conduit design/construction, contact RSO technical security *representative. Hand hole, splice/pull box or manhole may be required.*

5. The vendor shall pull a mandrel (1/2" smaller in diameter than the conduit and 6" long) through each duct, followed by a pulling line (1800 lb. minimum tensile strength mule line preferred) which shall remain in each duct as pull cable.

6. Vendor will connect all conduit with sealed/glue couplings and terminate their conduit with bell ends and plugs.
7. Ducts should be sloped away from the customer's building whenever possible to reduce the potential for water intrusion into the building as a result of failed or missing duct seals.

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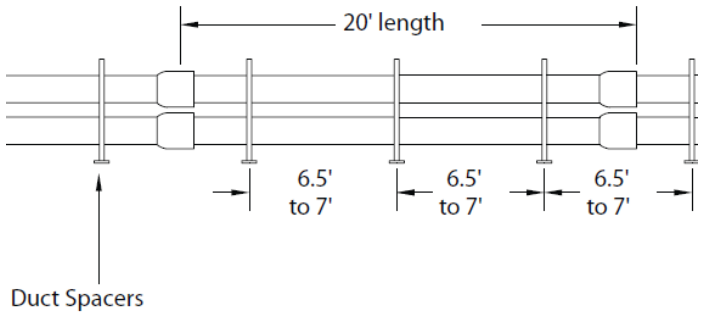
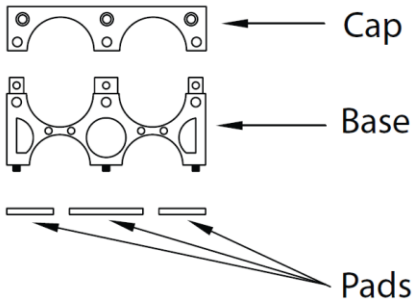


~Direct burial HDPE primary and secondary conduit with anchoring supports~



~ Duct Spacers | Front View ~

8. Required depth of conduit from final grade to top of conduit/conduit bank:
   24" for secondary and primary, minimum running alongside

10. Backfill evenly around duct with clean dry earth and mechanically tamp in 12" lifts.
11. Lengths of secondary duct banks shall be minimized to limit pulling distances and electrical losses.

Notice! Any direct duct lengths over 100 feet shall be approved by RSO prior to construction.

12. The minimum longitudinal separation between foreign structures and conduit should be as follows:
Telephone/Cable Television Conduit–3" of concrete or 12" of earth Gas, Water, Sanitary and Oil Mains–12" of earth

13. Splice/pull boxes or manholes will be required as specific instructions provided from layout and careful reconsideration on site survey.

14. If electric service is being supplied from a new source, the customer's duct shall enter the source cabinet as shown.

15. If electric service is being supplied from an existing source, the vendor shall end the secondary duct five feet from the secondary side of the high voltage source at a location determined by RSO. Vendor will continue the duct into the outdoor cabinet based on field conditions and construct concrete pad to host cabinet and terminate conduit in primary class manhole.

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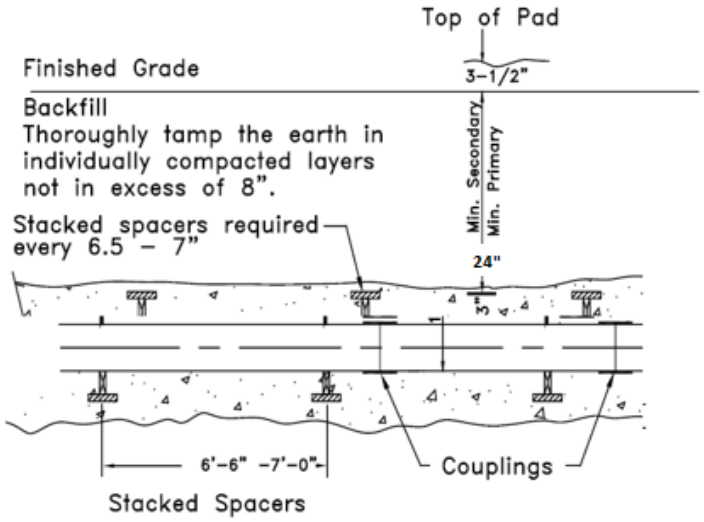
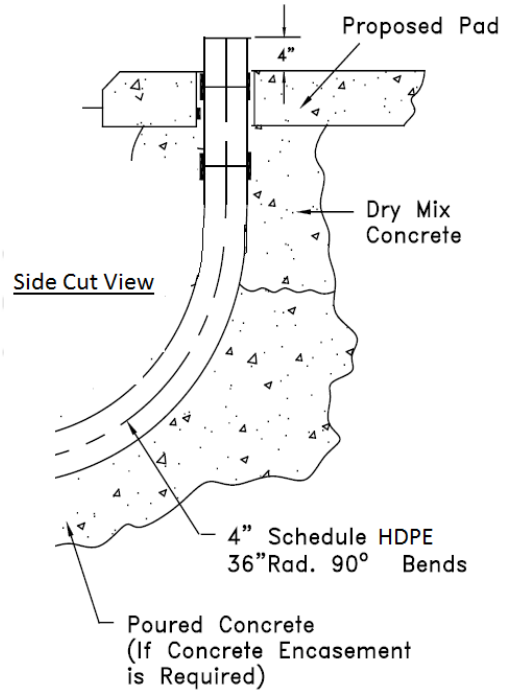


Side View



Notice! Reinforcing bars can be used to stabilize the duct and spacers. Drive #4 reinforcing bars through the inside edges of the duct spacers and at least 6" into the trench bottom.

Direct-Buried Sleeves

1. HDPE UL Schedule 40 conduit (solid wall, not split) may be used as a sleeve installed in advance of paving to facilitate future installation of small size (2" and smaller) services where casing is not required.
The ends of the sleeve should be sealed after insertion of the carrier pipe in the control box/handhole.

2. Sleeves shall not exceed one 45-degree bend, and must terminate a minimum of 5' from all buildings/structures.

Notice! : 90-degree bends are not allowed.

3. Sleeves will not be concrete encased.
4. Installation of piping into any electrical conduit bank is prohibited.
5. Installation of minimum 4" sleeve and underground warning tape unless otherwise specified for other service under paving, or under improved areas as required by RSO or any city or FM regulations.

6. Lengths of continuous runs for sleeves shall not exceed 300 feet.
7. Open trench space provision must be made to allow room to make these connections.
8. Warning tape is required above all sleeves and conduit runs
9. Vertical separation for sleeves when crossing any foreign structure is a minimum of 12".
10. Radial separation between sleeves and electric cable or conduit is a minimum of 12".

Unclassified

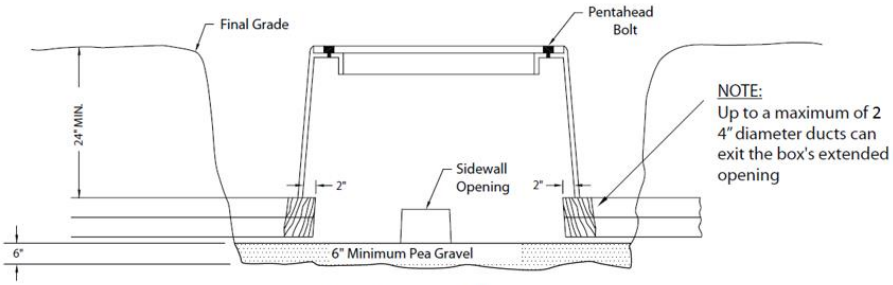
SPLICE/PULL BOXES

General Information

1. Fiberglass splice/pull box must be installed only in pedestrian (grassy) areas on level ground. It must not be installed on a hill or slope unless the bottom of the excavation is stabilized with 6” of pea gravel. The bottom flange of the splice/pull box must be on a firm level foundation.

2. Position the enclosure in the excavation so that the cover will be flush with final grade.
3. Ducts can only enter and exit the splice/pull box at opposite ends from each other. When necessary, the existing openings in the end walls can be enlarged to accommodate multiple ducts.

However, only a maximum of six ducts can be joined to this splice/pull box at any time, one for the secondary main and up to two for service cables.



Fiberglass Splice/Pull Box
Profile View

5. Install the ducts no more than 2” into the splice/pull box. Use aerosol foam sealer or duct sealing compound around the ducts on the outside of the splice/pull box to seal openings.

6. Place a block of wood over side wall openings without ducts, on the outside, to prevent backfill from entering the confines of the splice/pull box.

7. Once the box and duct are installed, the cover should be securely fastened to the enclosure during backfill compaction. This action will prevent any distortion of the sidewalls while the box is being backfilled

8. Backfill evenly around the splice/pull box with clean, dry earth and mechanically tamp in 8" layers.

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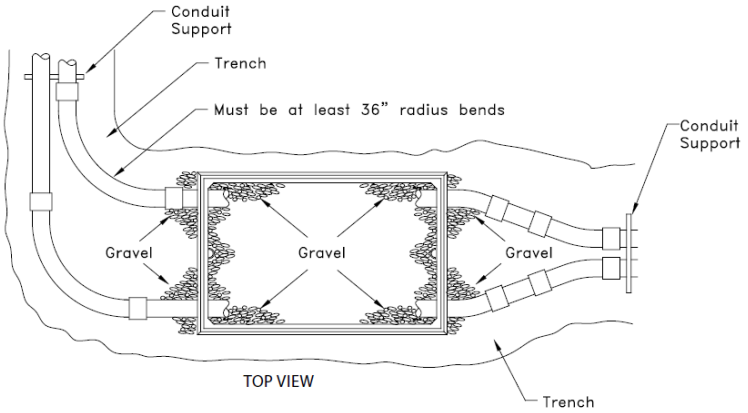

Notes:

A. Top of splice box should match finished grade. Box does not have to be perfectly level.

B. This splice box is not for roadway use.

MANHOLES

ATTENTION! Manholes are the most expensive item per foot in conduit construction, so design project to keep the number of manholes to a minimum.

Special Customer Requirements for Manhole Installations

Vendors are required to perform the following for manhole and conduit installations:
• Develop detailed conduit and manhole drawings including profiles and duct runs. **
• Submit conduit and manhole drawings to RSO technical security for review. **
• Submit drawings to FM and obtain required permitting.
• Contact RSO technical security and FM to schedule pre-construction meeting.
• Contact RSO technical security and FM to schedule "Pre-pour Inspection". **
• Contact RSO technical security and FM to schedule "Pre-backfill Inspection". **
• Contact RSO technical security and FM to schedule "Mandreling and Stringing Inspection". **
• Notify RSO technical security immediately of any changes to schedule, scope or final design.
**
The following instructions are to be utilized to install all Precast Concrete Manholes unless otherwise noted.

This Section should include:
• Standard Manholes recommendations
• Installation Standards
• Duct Terminations
• Clearances
• Depth (Cover) Sizes

There are various sizes and styles of Precast Concrete Manholes. Depending on the specific situations and applications, manhole types are usually determined by the voltage of the circuits and the proposed number of ducts entering the manhole. RSO representative will determine the size and type of manhole for the project after survey have been performed from vendor and evaluate vendors recommendation.

Notice! All manholes should have lightweight HDPE covers and water insulated locking mechanism.

Installation Standards

Unclassified

1. Determine as accurately as possible surface and subsurface obstructions to assure proper installation of manholes and the proper installation, alignment and interception of ducts.
2. Stabilize the bottom of the manhole excavation with 8 " of pea gravel.
3. The excavation bottom shall be dry and level to within 1 " side-to-side and end to end.
4. Position manholes in the excavation so that the rooftop is 1' minimum – 5' maximum below final grade. If the manhole has to be installed at a greater than 5' depth, contact the RSO representative for authorization.
5. Backfill evenly around the manhole with clean, dry earth or sand. Mechanically tamp in 12 " layers.
6. Install frame and cover. On private property a frame and cover can be purchased and delivered to site from the Contractor.

7. Place black mastic sealant strips in the groove on the top of the wall prior to installing top to provide a water tight installation.

Location
1. The preferred manhole location is pointed out on the layout, access for personnel and construction equipment for the installation and maintenance of manholes, equipment and cables should be taken in consideration prior to installation from the vendor. Secondary purpose or recessed secondary transit manholes are not viewed on layout due to evaluation required on site.

2. Avoid wet locations, swale areas and low points.

Clearances
1. A minimum of 15' overhead clearance is required for the installation and maintenance of existing and proposed manholes.

2. Maintain 2' minimum horizontal clearance from edge of curb or paving to manhole.
3. Maintain 2' minimum clearance from property line.
4. Minimum horizontal clearance from adjacent buildings is determined by maintaining a one foot horizontal separation for every foot the manhole floor extends below the basement floor elevation.

5. Minimum horizontal clearance from underground obstructions such as retaining walls, pole, and foundations is determined by maintaining a one foot horizontal separation for every foot the manhole floor extends below the obstruction.

6. When clearances must be reduced, contact the responsible RSO or local FM to negotiate an agreement.

SMALL secondary

General Information
1. This type of manhole can be used in any setup if required.
2. Because of the confined space inside this manhole, only one to two services can be spliced to the secondary main inside this smaller manhole.

3. This manhole must be located on a level area. Do not install it on a hill or slope.
4. Stabilize bottom of excavation with 8" of pea gravel. The bottom shall be dry and level to within 1" side to side.
5. Position the manhole in excavation so that the roof slab is a minimum of 8" below finished grade and the cover ends up at final grade.

6. Place black mastic strips in groove on top. Position the 6" concrete roof slab in the groove and compress to provide a watertight installation.

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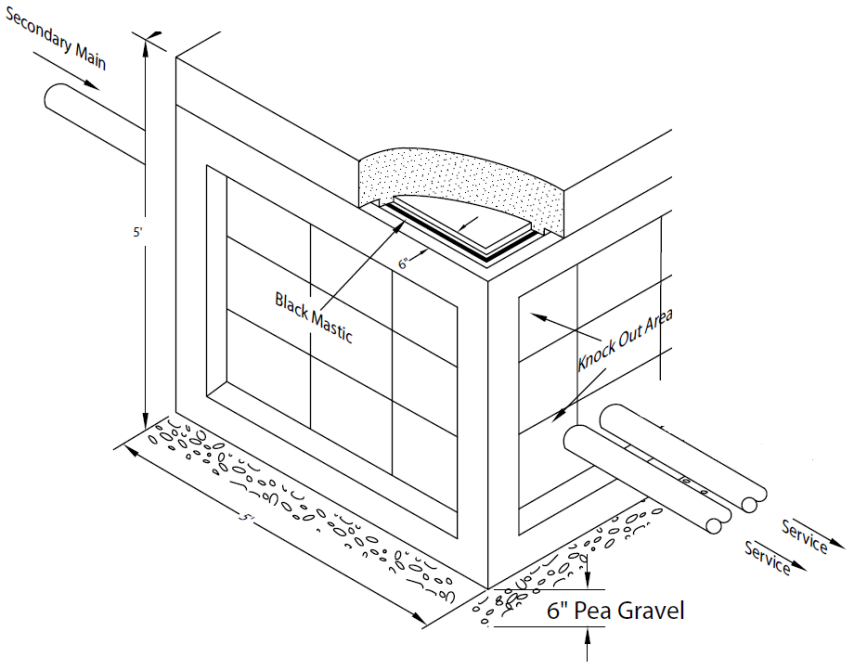
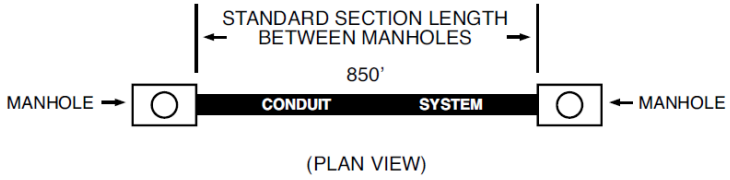


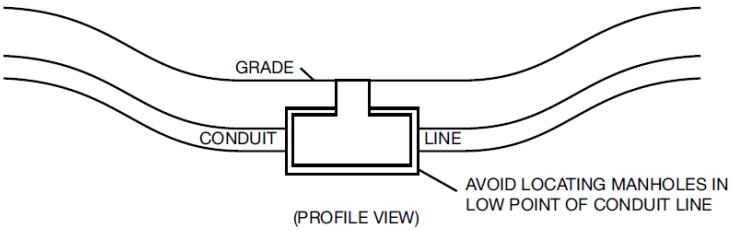
7. Install HDPE light weight frame and cover. Check with RSO for proper cover if the manhole is installed right way.

8. The concrete encased ducts must enter and exit the manhole at opposite ends.
9. Position the ends of the ducts so they are flush with the inside wall.
10. The ducts must enter/exit the manhole 21" from the exterior sided wall and 12" from exterior bottom.
11. A maximum of three ducts can be connected to this manhole at any time, one duct for the secondary main and up to four ducts for the service cables.
12. Backfill evenly around the manhole with clean dry earth and mechanically tamp in 12" layers.

Special Lengths

1. Standard distance between manholes must not exceed 850'.
2. If conduit design/construction requires spacing to be longer than maximum lengths, contact RSO's Technical Specialist.





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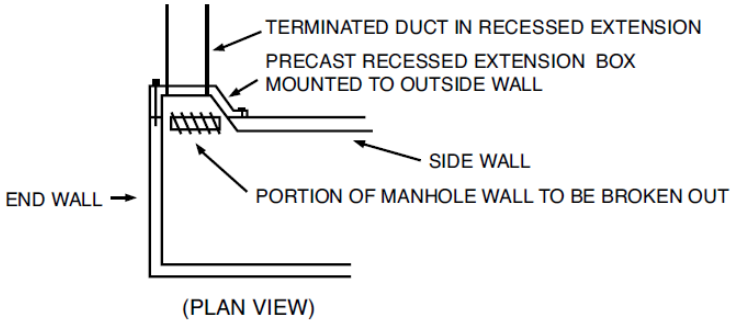
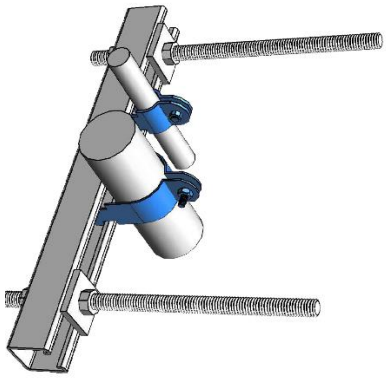
Sidewall Terminations

In the portion where the conduit run will terminate/initiate to transit to a wall setup, the midpoint from hand hole to wall should be mediated through a manhole with sidewall termination to allow a smooth and proper angle run.
• When the two ducts are terminated in a manhole sidewall, they are to be recessed. This recessing provides additional sidewall space for splicing the cable by permitting it to be shaped quickly to the wall to which ducts are entering or running.
• Methods used to install a recess differ for precast and poured-in-place manholes.

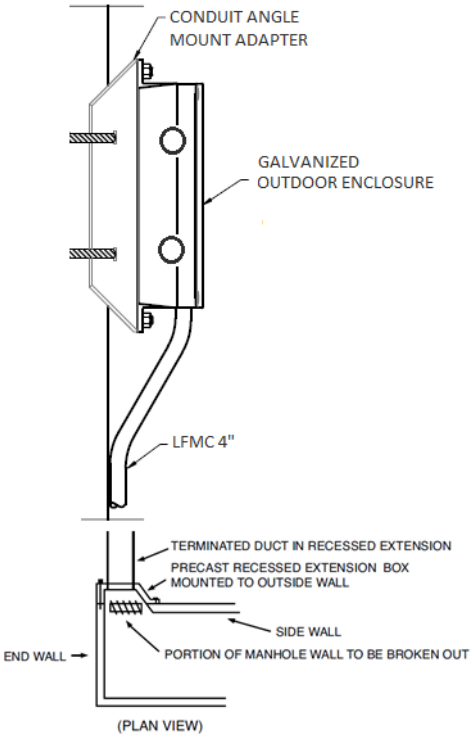


~ Manhole to wall transit ~



~Strut chat support system for wall conduit run~

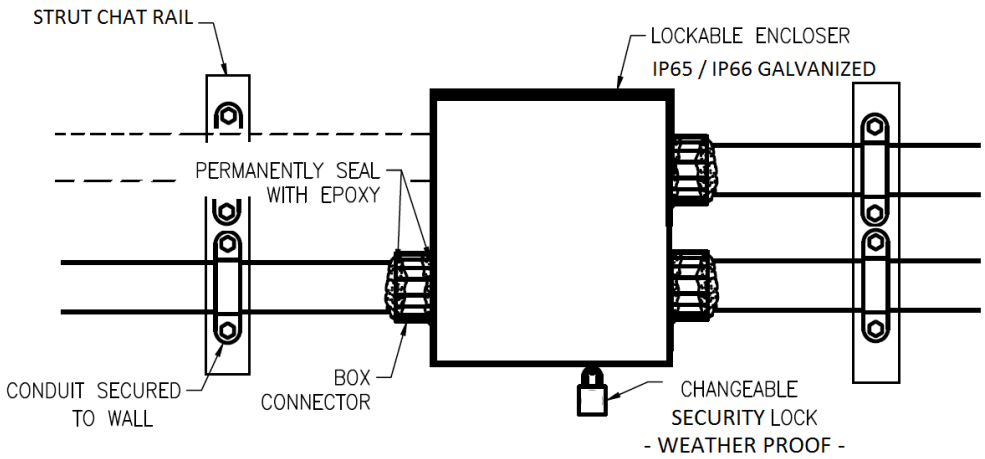
• After the duct have transited on the wall transit enclosure a Strut chat support run will host the conduit until it transits back to a recessed entry setup.



~ Manhole to wall enclosure conduit transit ~

Unclassified

Sidewall Terminations – STRUT Rail Setup



~ Wall Enclosure distribution system setup by strut chat conduit rail system ~

• The above picture describes the setup and standard required for the wall run transition portion, all wall enclosures should be galvanized and lockable with weather protected/proof security locks. Size should host required load per conduit transit.

Unclassified

ATTACHMENT #6 - Communications Backbone Cabling Standards

SECTION 271305 – COMMUNICATIONS BACKBONE

CABLING PART 1 – GENERAL

1.1 SUMMARY

A. This Section includes backbone cabling for fully operational telecommunication system.

B. Related Sections include the following:

1. Division 27 Section "Common Work Results for Telecommunications."
2. Division 27 Section "Communications Faceplates and Connectors."
3. Division 27 Section "Identification for Communications Systems."
4. Division 27 Section "Communications Cabinets and Frames."
5. Division 27 Section "Data Communications Switches and Power Supplies."

1.2 STANDARDS

A. Standards applicable to the Section include the following:

1. ANSI/TIA/EIA 568-C.1 (including addenda): Commercial Building Telecommunication Cabling Standard Part 1: General Requirements.
2. ANSI/TIA/EIA 568-C.2 (including addenda): Commercial Building Telecommunication Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components.
3. ANSI/TIA/EIA 568-C.3 (including addenda): Optical Fiber Cabling Components Standard.
4. ANSI/TIA/EIA 569-B (including addenda): Commercial Building Standard for Telecommunication Pathways and Spaces.
5. ANSI/TIA/EIA 598: Optical Fiber Color Coding.
6. ANSI/TIA/EIA 606A (including addenda): Administration Standard for Commercial Telecommunications Infrastructure.
7. ANSI/J-STD 607-A: Commercial Building Grounding (Earthing) and Bonding Requirement for Telecommunication.
8. ANSI/TIA/EIA 526-14A: Optical Power Loss Measurements of Installed Multimode Fiber Cable Plant – OFSTP-14.
9. ANSI/TIA/EIA 758A (including addenda): Customer-Owned Outside Plant Telecommunications Cabling Standard.
10. ANSI/NECA/BICSI 568: Standard for Installing Commercial Building Telecommunications Cabling.

1.3 SUBMITTALS

A. Product Data: Submit manufacturer's literature and sample of telecommunications installation

Unclassified

materials.

B. Shop Drawings: See Division 27 Section "Common Work Results for Telecommunications."

C. Installer Qualification Document: See Division 27 Section "Common Work Results for Telecommunications."

1.4 QUALITY ASSURANCE

A. Installer Qualifications: See Division 27 Section "Common Work Results for Telecommunications."

B. Source limitations: Obtain telecommunication cabling system such as cable, jack, termination blocks, patch panels, and path cords through one single manufacture. Match components and interconnection for optimum future performance.

1.5 DELIVERY, STORAGE, AND HANDLING

A. See Division 27 Section "Common Work Results for Telecommunications."

1.6 PROJECT CONDITIONS

A. See Division 27 Section "Common Work Results for Telecommunications."

1.7 COORDINATION

A. See Division 27 Section "Common Work Results for Telecommunications."

B. Coordinate with other trades for installation of backbone cabling such as mechanical, electrical, and structural.

PART 2 – PRODUCTS

2.1 OUTSIDE PLANT OPTICAL FIBER DISTRIBUTION CABLE

A. Outside Plant Multimode OM3 (50/125 ✪m laser-optimized) loose tube, fiber optic backbone cable shall be used for data connectivity.

Core shall consist of loose tubes around central dielectric strength member. Cable shall contain water-blocking yams wrapped with water swellable tapes. Jacket shall be medium density PE jacket.

C. Maximum attenuation of fiber optic cable:

1. 850 nanometers: 2.3 dB/km
2. 1300 nanometers: 0.6 dB/km

D. Minimum bandwidth of fiber optic cable:

Unclassified

1. 850 nanometers: 1500 MHz-km
2. 1300 nanometers: 500 MHz-km

E. All finished fibers shall be color-coded by manufacturer for identification.

F. Cable Strength and Durability: Cable shall be able to:

1. Withstand short-term tensile load of 2700 N (600 lb), with maximum elongation of less than 0.5 percent and no breakage of fibers. Long-term tensile load capacity shall be minimum of 890 N (200 lb).
2. Withstand twisting of 360 degrees over length of 2 meters for at least 10 cycles per minute.
3. Withstand storage and operating temperatures of minus 40 deg. C to plus 70 deg C.
4. Withstand compressive force of 600 N/cm without breakage, and with no attenuation increase after force is removed.

2.2 OUTSIDE PLANT COPPER DISTRIBUTION CABLE

A. Distribution cable for telephone system connectivity throughout campus shall be multipair OSP PE-39 or PE-89 unshielded twisted pair within single sheath.

B. Conductors: Solid 0.5 sq. mm, annealed bare copper.

C. Insulation: Either solid polyolefin or foamed polyolefin with solid covering of polyolefin.

D. Fill cable core with waterproofing gel filled compound, and wrap in non-hygroscopic core tape.

E. Shielding: Steel Aluminum black Polyethylene (STALPETH).

F. Cable Jacket: Black polyethylene with sequentially printed metal markers at regular intervals.

G. Air-filled cables are not permitted.

H. Cables shall comply with ANSI/ICEA S-80-576 for standard US color codes and binder color-code integrity.

I. All cables shall be American Standard type.

2.3 INSIDE BUILDING OPTICAL FIBER DISTRIBUTION CABLE

A. Cable shall be UL listed.

B. Fiber Construction: Interconnected tight-buffered, multimode, OM3 laser optimized with core/cladding size of 50/125 microns.

C. Core shall consist of tight buffer around central dielectric strength member. Cable shall contain strength members to satisfy mechanical and environmental specifications provided herein.

D. Maximum attenuation of cable:

Unclassified

1. 850 nanometers: 2.3 dB/km
2. 1300 nanometers: 0.6 dB/km

E. Minimum bandwidth of cable:

1. 850 nanometers: 1500 MHz-km
2. 300 nanometers: 500-MHz-km.

F. All finished fibers shall be color coded by manufacturer for identification. Provide field terminations or spliced pigtails to terminate fibers.

G. Nominal connector loss shall not be greater than 0.25 dB per mated pair.

H. Short-term tensile load capacity shall be 1300 N, with maximum elongation of less than 0.5 percent, and no breakage of fibers for cables with 12 strands or more.

I. Short- term tensile load capacity shall be 650 N, with 0.5 percent maximum elongation, and no breakage of fibers for cables with less than 12 strands.

2.4 INSIDE BUILDING COPPER BACKBONE CABLE

A. Backbone Cable for Telephone: Copper-unshielded twisted pair, Category 3.

B. Cable shall be UL listed.

C. Conductors: 0.5 sq. mm solid bare copper-paired thermoplastic insulated conductors, formed into binder groups of 25 pairs, and assembled to form single compact cored covered by protective sheath.

D. Sheath: Underlying metallic shield, with one or more layers on dielectric materials applied over core.

E. Cable shall comply with NSI/ICEA S-80-576 color for standard US color codes and binder color code integrity.

2.5 COAXIAL BACKBONE CABLE

A. Coaxial cable elements shall have 75-ohms nominal impedance. Coaxial cable shall bear plenum- or riser-rated markings for environment in which they are installed.

B. Satellite Antenna Cable: .500 or RG-11/U as indicated on Drawings. Cellular-polyethylene dielectric, tinned-copper braid shield with 100 percent shielding factor, 1.0 sq. mm solid copper conductor; and PVC jacket.

C. CATV Indoor Trunk Cable: RG-11/U, cellular-polyethylene dielectric, bare-copper braid shield with 95 percent minimum shielding factor, 2.5 mm, solid bare-copper conductor.

PART 3 – EXECUTION

Unclassified

3.1 INSTALLATION

A. Install equipment according to manufacturer's directions, approved shop drawings, and referenced standards identified in this Section.

B. Install cables using techniques, practices, and methods that are consistent with rating of components, and that ensure performance of completed and linked signal paths, end-to-end.

C. Install cables without damaging conductors, shield, or jacket.

D. Do not bend cables, in handling or in installing, to smaller radius than minimums recommended by manufacturer's installation recommendation.

1. Outside Plant Optical Fiber Distribution Cable: Minimum static or no load-bending radius for cable shall be no greater than 10 times the outside diameter of the cable.

2. Inside Optical Fiber Distribution Cable:

a. Minimum static or no-load bending radius shall be less than 10 times the outside diameter of the cable.
b. Minimum dynamic or loaded bending radius shall be less than 20 times the outside diameter of the cable.

E. Pull cables without exceeding cable manufacturer's recommended pulling tensions. Pull cables simultaneously if more than one is being installed in same raceway.

1. Use pulling compound or lubricant if necessary. Use compounds that will not damage conductor or insulation. Lubricant shall be viscous gel or colorless liquid with no odor. Use lubricants which deter rodents and insects.
2. Use pulling means, including fish tape, cable, rope, and basket weave wire or cable grips, which will not damage media or raceway.
3. Remove cable from pathways that has been damaged (tears in cable sheath) during installation. Replace damaged cable with new cable within same raceway.

F. Outside Plant Optical Fiber Distribution Cable Installation:

1. Connect fibers utilizing field-installed terminations or spliced pigtails.
2. Only fusion splicing is permitted.

G. Outside Plant Copper Distribution Cable Installation:

1. Configure cable groups in separate color-coded binder groups. Identify binder groups and individual pairs using industry standard color codes.
2. Do not splice cables.

H. Inside Building Optical Fiber Distribution Cable Installation:

1. Use either plenum- or riser-rated cabling as required by installation environment and the National Electrical Code (NFPA 70). Use plenum-rated cable within areas designated as air plenums.

I. Inside Building Copper Backbone Cabling Installation:

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1. Do not splice cable.
2. Use either plenum- or riser-rated cabling, as required by installation environment and the National Electrical Code (NFPA 70). Use plenum-rated cable within areas designated as air plenums.
3. Copper cable installed within or under grade floor slab for intra-building connectivity shall utilize outside plant (OSP) cable due to wet environment. Protectors are not required.

3.2 FIELD QUALITY CONTROL

A. Contractor shall perform pre-qualification tests prior to Government acceptance testing.

B. Acceptance Testing: Government may procure services of independent test firm to perform acceptance testing of each section or infrastructure, and to inspect installation to ensure work has been performed in accordance with contract requirements.

1. Acceptance testing will not begin until all work is completed. No construction which limits access or which produces adverse conditions that can adversely affect test result are permitted. For example, work which produces dust shall be completed prior to testing. Contractor shall have completed all work on cable plant or in telecommunications spaces prior to acceptance.

2. Testing parameters are as follows:

Copper cable plant will use Level III tester for conformance with performance requirement of TIA/EIA 568-B for all category levels include CAT3 UTP cable. UTP copper backbone/riser cables testing will be for continuity, length, polarity, and wire map. Coax cables testing will be for continuity and length.

a. Multimode Fiber optic cable plant testing will use instrumentation based on TIA/EIA 526.14A, Method B, for Multimode fiber cable testing. Testing will be bi-directional at both operating windows using power optical loss test equipment set such as Fluke DSP4300. OTDR traces of fiber optic cables may be performed.

3. Contractor shall be present during acceptance testing to replace/repair all work that fails.

4. Contractor is financially responsible for all costs associated with repair or replacement of cable, terminations, equipment, and other associated items which are identified as failing during acceptance testing.

END OF SECTION 271305

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ATTACHMENT #7 – Key Concerns

Project: RILINDJA RIDGE, TELEPHONE TRENCHING AND CONDUIT PROJECT

This document highlights the key concerns and specific items that must be addressed in the quote.

1. Vendors must comply with the material specifications outlined in the SOW. Failure to meet these specifications will result in a noncompetitive bid. To ensure that we can verify compliance, please use the below format to submit your bill of materials (BOM). Approximate quantities are accepted.

Description	Material	Size/Unit	Standard UL/IP	Part Number	Manufacturer	Country of Origin	Quantity	Cost Per Each	Total Cost

a. Please see below for an approximate materials summary for the Technical Security Conduit and Cabling portion of the project. The below summary does not include accessories, consumables or other construction elements that are required to the competition of on-site installations. It is the responsibility of the vendor to complete and populate their summary with all required elements.

Description	Material	Size/Unit	Standard UL/IP	SIN / Part number	QTY
Direct burial conduit	HDPE Conduit Corrugated inner duct	4”(inch)	Schedule 40	Ref page 3/11	1742m
Wall mount conduit	HDPE Smooth wall transit with anchoring metal cable	4”(inch)	Schedule 40	Ref page 3/11	1140m
Interconnection lines	HDPE Conduit Corrugated inner duct	4”(inch)	Schedule 40		500m
Burial duct spacer anchoring mounts	Duct underground anchoring spacers	***		Ref page 4/11	as required
Pulling line	pulling line (1800 lb. minimum tensile strength mule line)	***	***	Ref page 3/11	as required
Sleeves for interconnection	HDPE Conduit sleeve	***	Schedule 40	Ref page 5/11	as required
Splice/Pull boxes/Handholes	Fiberglass - precast	***		Ref page 5/11	38
Manholes	HDPE sealed manholes + lockable cover	***	IP65	Ref page 7/11	11
Wall mount railing system for conduit support	Strut chat support rail - Galvanized	***		Ref page 8+9/11	as required
Outdoor wall mount enclosure/conduit pull box	IP65/66 Outdoor enclosure lockable	***	IP65	Ref page 9/11	41
Existing Manholes Cover changes	IP65/66 Outdoor HDPE manhole cover lockable similar to: (example: https://www.fibrelite.com/our-products/manhole-covers/square-rectangular-covers/)	***	IP65/66	***	32

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Outdoor telecommunication cabinet	**30U Two Bay Outdoor Base Station Cabinet**	***	IP55	Ref page 10/11	1

b. Additional Optical Fiber specifications are noted below:

Fiber cable Single Mode 12 fibers matching with G.655 standard.
Types of Cables

Type for installation outdoor fiber
Fiber Type: Single Mode
Fiber count: 12 fibers
Core: Germanium doped silica
Cladding: Silica index and matched clad type
Coating: Dual layers of UC-cured acrylate
Optical Specifications
Attenuation at 1310nm 0.335dB/km at 1550nm 0.195dB/km at 1383nm 0.31dB/km (after H2 aging)
Attenuation change at 1285~1330nm 0.05dB/km (1310nm reference) at 1525~1575nm 0.05dB/km (1550nm reference)
Point discontinuity at 1310 and 1550nm 0.1dB
Zero dispersion wavelength 1300~1322
Zero dispersion lope 0.092ps/(nm2.km)
Chromatic dispersion at 1285~1330nm 3.5ps/(nm.km) at 1550nm 18ps/(nm.km)
Cut-off wavelength of fiber 1150~1330nm of cabled fiber 1260nm
PMD for individual value (uncabled fiber) 0.15ps/km for link value 0.1ps/km

2. Vendors must provide a positive response to CLAUSE 52.246-21 WARRANTY OF CONSTRUCTION (MAR 1994) to be considered a valid bid.
3. Vendor shall submit:
   a. Project Execution Plan PMP (methodology should indicate how the trenching will be performed trenching works, and others)
   b. Project Execution schedule (note: This should be linked with the Breakdown of Works template)
4. Vendor shall submit technical design specifications. For the highlighted areas (red and orange) in the Attachment 8 – Technical Design Specification Locations.
   a. Provide Technical solutions, plans and cut sections. (note: Provide all line junctions and intersections and passage over the drainage canals)
   b. Provide longitudinal sections for all the areas with difference in terrain quotes. (note: Drawings should indicate the way how horizontal pipes will be anchored on the wall)
5. All existing old manhole covers should be replaced with new HDPE lockable covers for the Technical Security Conduit and Cabling portion of the project. Please refer to addendum document Attachment 9 - Old manhole interconnections and cover replacement for specific locations.
6. Infrastructure applications that require detail should be documented for each scenario that requires the solution to be displayed. Refer to the Attachment 10 – Detail Point Requisites for each requisite specific repetitive or non-repetitive scenario requiring detail or cut section display. Template of display should follow the basic sections as below
   a. Location (location might consist of a single point or a complete section run {***example: West perimeter wall run setup***}
   b. Detail drawing with all technical elements included
   c. Description of construction/damage/repair operations
7. Vendor should comply with the below additional specifications for the outdoor equipment cabinet required in the Technical Security Conduit and Cabling portion of the project.

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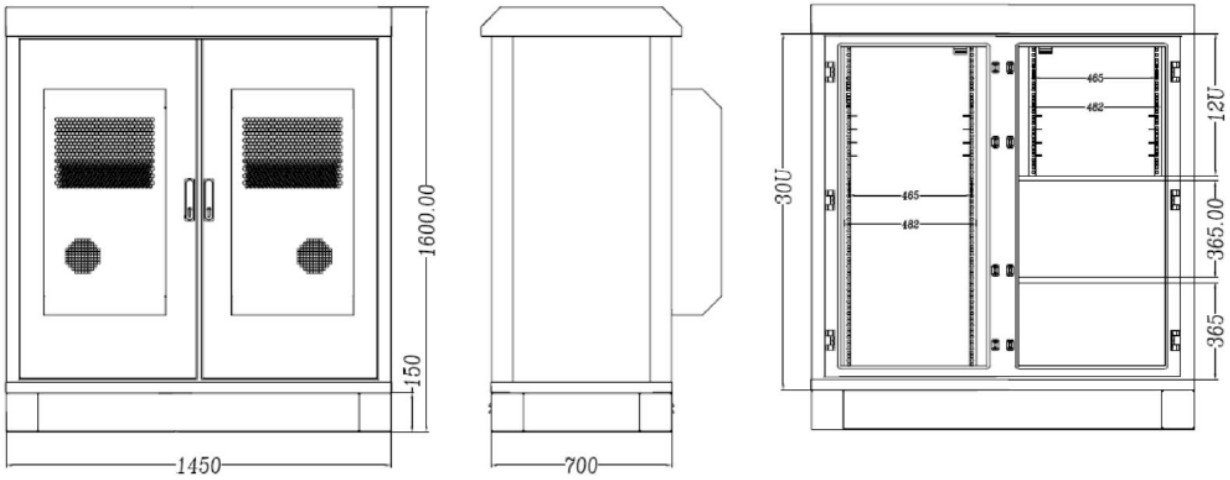
The below cabinet is intended to host networking equipment outdoors. Location of installation is concrete base pad. Cabinet should be either or similar to the model below in specifics of space available, ventilation and environmental control options.

30U Two Bay Outdoor Base Station Cabinet
Reference Model: ET14570160-2B or similar

Dimension Diagram



Features

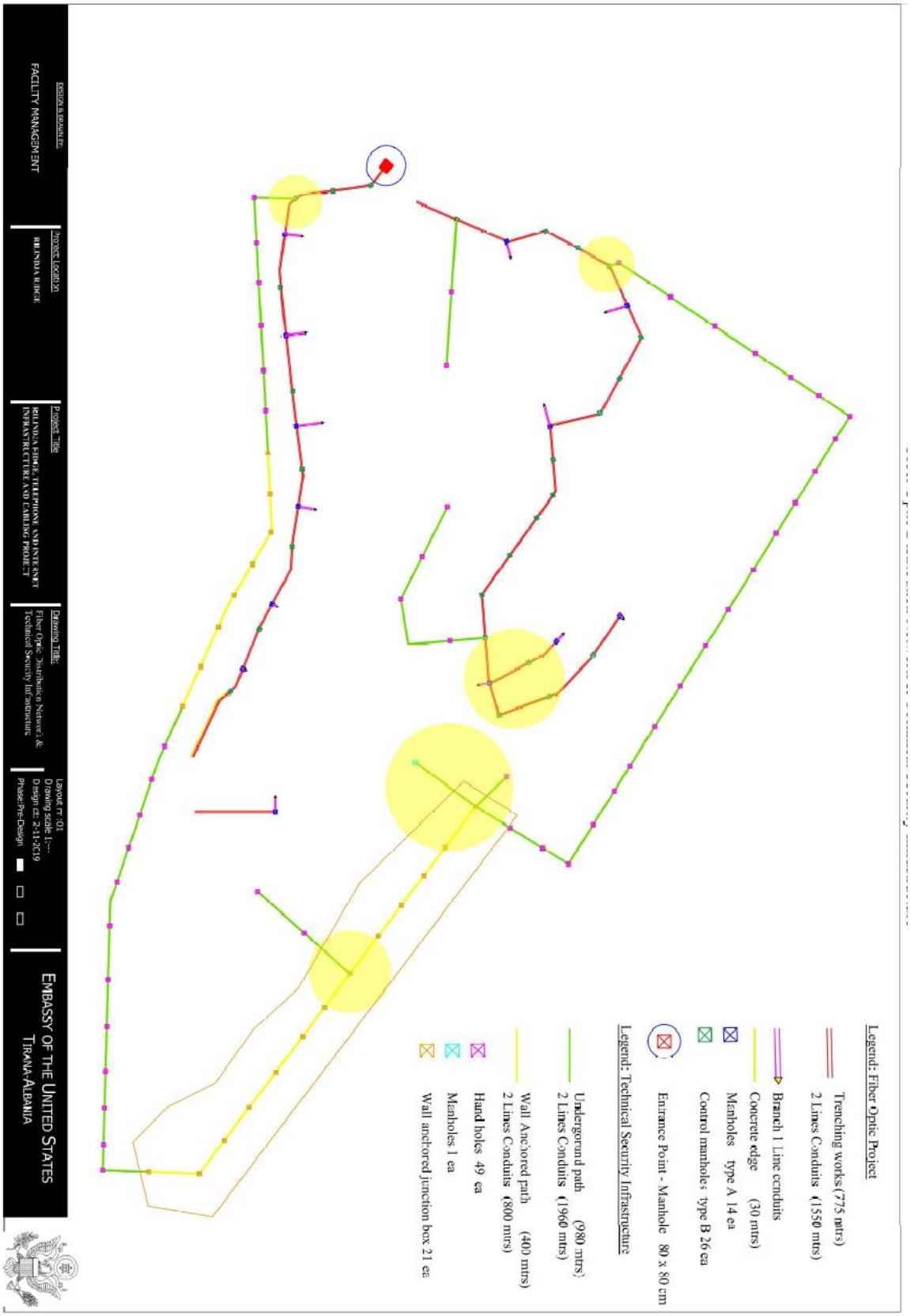
● Two front doors, easy access to inside equipment's
● Anti-corrosion powder coating
● Left compartment for installing standard 19" equipment's, right compartment for installing 19" equipment's and batteries.
● IP55
● Cooling by air conditioner (including fan temperature controller, temperature adjustable.
● High integration, compact structure, easy installation and migration on later stage
● Anti-theft lock, specially used for outdoor cabinet
● Full protection: door sensor, smoke sensor, water sensor, temperature & humidity sensor and tilt & shock sensor. Environmental monitoring system support SNMP communication.
● LED light is switched on during the door being opened

Unclassified

- Power distribution unit

Unclassified

ATTACHMENT #8 – Technical Design Specification Locations



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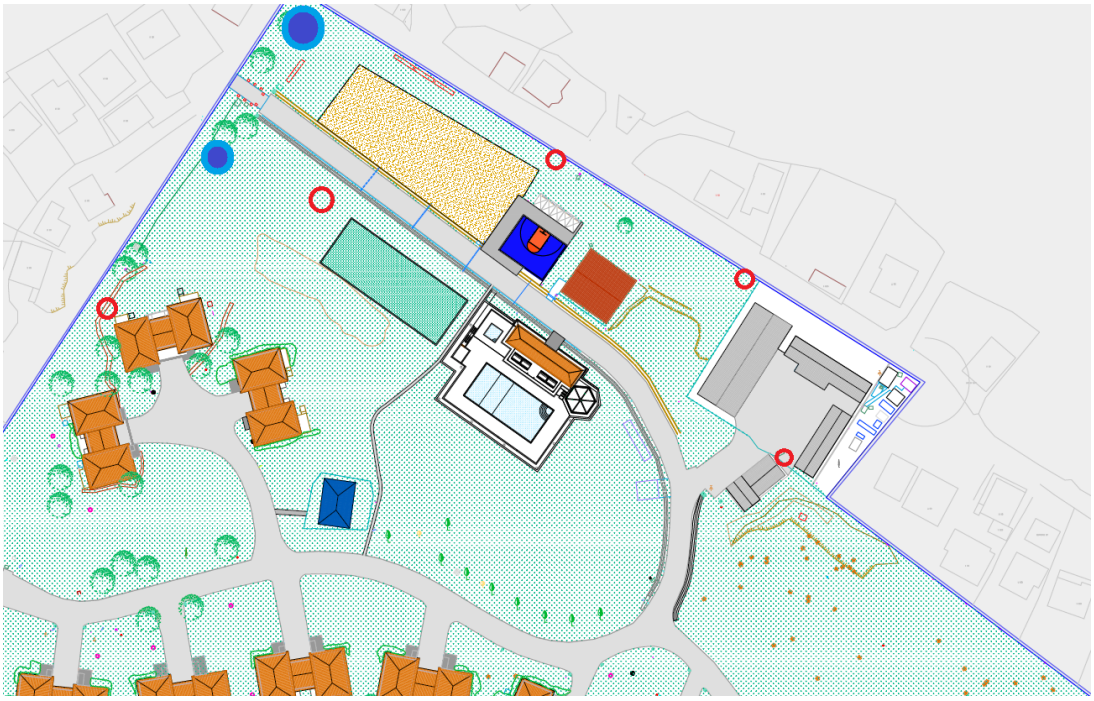
ATTACHMENT #9 – Old Manhole Interconnections and Cover Replacement

RSP-0709

Attention! All Interconnection endings in old manholes highlighted in red and all old manholes highlighted in blue should be equipped with either new HDPE covers.



Northern Compound Interconnection endings between old manholes and new infrastructure.
1-1

Southern Compound Interconnection endings between old manholes and new infrastructure.
1-2

Unclassified

Outer fence – tree line behind perimeter wall inter-connection point with new infrastructure
1-3

Unclassified

ATTACHMENT #10 – Detail Point Requisites