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<b>SOLICITATION, OFFER, AND AWARD</b> <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NO. S-IZ250-12Q0008	2. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFQ)	3. DATE ISSUED Feb 20 <sup>th</sup> , 2012	PAGE OF PAGES 2 of 84
	<b>IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.</b>			

4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO. PR 1638113	6. PROJECT NO.
7. ISSUED BY US Consulate General Ankawa Compound Erbil, Kurdistan Region Republic of Iraq	CODE	8. ADDRESS OFFER TO <a href="mailto:ErbilProBid@state.gov">ErbilProBid@state.gov</a>
9. FOR INFORMATION CALL: →	A. NAME Christopher Easley	B. TELEPHONE NO. <i>(Include area code) (NO COLLECT CALLS)</i> <a href="mailto:EasleyCD@state.gov">EasleyCD@state.gov</a>

**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):*

Renovation of four buildings S-016, S-018, S-037 and S-038 located in the Ankawa Compound of the U.S. Consulate General in Erbil, Iraq

11. The Contractor shall begin performance within <u>5</u> calendar days and complete it within <u>60</u> calendar days after receiving <input type="checkbox"/> award, <input checked="" type="checkbox"/> notice to proceed. This performance period is <input checked="" type="checkbox"/> mandatory, <input type="checkbox"/> negotiable. (See _____.)	
12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? <i>(If "YES," indicate within how many calendar days after award in Item 12B.)</i> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12B. CALENDAR DAYS 10 days

13. ADDITIONAL SOLICITATION REQUIREMENTS:
- A. Email offers to [ErbilProBid@state.gov](mailto:ErbilProBid@state.gov). Offers to perform the work required are due March 8<sup>th</sup>, 2012. ~~Sealed offers in original and \_\_\_\_\_ copies to perform the work required are due at the place specified in Item 8 by \_\_\_\_\_ (hour) local time \_\_\_\_\_ (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 60 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

**OFFER (Must be fully completed by offeror)**

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)		15. TELEPHONE NO. (Include area code)	
		16. REMITTANCE ADDRESS (Include only if different than Item 14)	
CODE		FACILITY CODE	

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
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**AWARD (To be completed by Government)**

21. ITEMS ACCEPTED:

22. AMOUNT	23. ACCOUNTING AND APPROPRIATION DATA
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24. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified) →	ITEM	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO <input type="checkbox"/> 10 U.S.C. 2304(c)( ) <input type="checkbox"/> 41 U.S.C. 253(c)( )
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26. ADMINISTERED BY	CODE	27. PAYMENT WILL BE MADE BY
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**CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE**

<input type="checkbox"/> 28. NEGOTIATED AGREEMENT (Contractor is required to sign this document and return ___ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration slated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this	<input type="checkbox"/> 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.
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30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN (Type or print)	31A. NAME OF CONTRACTING OFFICER (Type or print)
--------------------------------------------------------------------------------	--------------------------------------------------

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

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, overhead and profit.

Building S-16, S-18, S-37, S-38	subtotal price USD	_____
DBA Insurance	USD	_____
Total price	USD	_____

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. Detailed Scope of Work for buildings S-16, S-18, S-37 and S-38 under Attachment #6,

C. PACKAGING AND MARKING

Mark materials delivered to the site as follows:

U.S. Consulate General  
Ankawa Compound  
Erbil, Iraq

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

Section F. "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.

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 5 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 60. The work at property # S-037 shall start after issuance of a separate Notice To Proceed which is estimated to be mid April 2012

The time stated for completion shall include final cleanup of the premises and completion of punch list items.

#### 52.211-12 LIQUIDATED DAMAGES – CONSTRUCTION (SEP 2000)

Section F. If the Contractor fails to complete the work within the time specified in the contract, or any extension, the Contractor shall pay liquidated damages to the Government in the amount of \$1082.19 USD for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Default clause.

#### 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 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.

© 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 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.

*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 normal consulate working hours (8 a.m. to 5 p.m.) from Sunday through Thursday. 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 US Consulate General, Erbil, Ankawa Compound 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:

<u>Description</u>	<u>Quantity</u>	<u>Delivery Date</u>	<u>Deliver to</u>
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	last calendar day of each month	COR
Section D. Request for Substantial Completion	1	15 days before inspection	COR
Section D. Request for Final Acceptance	1	5 days before inspection	COR

## 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 Facility Maintenance Supervisor.

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 Baghdad  
Financial Management Officer  
International Zone,  
Baghdad, Iraq

## 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. Payment protection document may be: bonds, irrevocable letters of credit, or bank guarantees.

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 stated in US Dollars:

Per Occurrence	\$10,000
Cumulative	\$100,000

2. Property Damage on or off the site in US Dollars:

Per Occurrence	\$10,000
Cumulative	\$100,000

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 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 there from, 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:

- 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,
- 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:

- 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,
- record shop drawings and other submittals, in the number and form as required by the specifications.
- The drawings shall be digitally submitted on a CD-ROM in both autoCAD and PDF format

### 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 10 days to perform. For each individual the list shall include:

- Full Name
- Place and Date of Birth
- Current Address
- Identification number (Jensiya or passport number)
- Vehicle make, model, color and license plate number

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:

-the date, circumstances, and applicable contract clause authorizing an equitable adjustment and

-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

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.

#### G.10.0 Additional Conditions that apply to the renovation project of buildings S-016, S-018, S-037 and S-038

##### G.10.1 Other Conditions

G.10.1.1. Safety. The Contractor shall be responsible for conducting the work in a manner that ensures the safety of residents, employees and visitors to the Embassy, and the Contractor's employees.

G.10.1.2. Workforce. The contractor shall provide all supervision, skilled and unskilled labor needed to perform the work. The contractor shall comply with embassy security policy by providing embassy approved escorts. Contractor provided escorts shall be in quantity sufficient to comply with RSO escort ratios for number of workers on the project. The contractor shall prepare requests to RSO for vetting of employees to get escort badges. The Contractor or government may request for workers to be badge for unescorted Embassy access by going through RSO vetting process. Contractor must supply "cleared escorts" at all job sites.

G.10.1.3. Modification to Contract. The Contractor shall not incur any costs beyond those described in this SOW unless directed otherwise in writing by the Contracting Officer. Any work performed by the Contractor beyond this SOW without written direction from the Contracting Officer will be at the Contractor's own risk and at no cost to the US Consulate Erbil.

G.10.1.4. Stop Work. At any time during the Project, the Contracting Officer reserves the right to Stop Work for protection of employees or visitors, security, or any other reason at his/her discretion.

G.10.1.5. Submittals. The contractor is responsible to submit shop drawings prior to fabrication and release of any materials for the Facility Manager and COR Review and approval. The Facility Manager review, however, does not relieve of the contractor's responsibility for the engineering work as to provide a complete working system.

G.10.1.6. Excavation and Utilities. The contractor is responsible to locate all existing utility lines prior to any excavation. Prior to disconnecting any existing utility services, the contractor is responsible to provide 48-hour advance notice to the COR.

### G.10.2 Other Requirements

The contractor is responsible to properly layout and prepare for the renovation based on locations provided by FAC.

When pursuing the work, the contractor is to take extra care as not to damage existing structure.

All construction work will be in conformance with the following Codes:

International Building Code, 2009 Edition plus the 2011 OBO International Code Supplement.  
International Plumbing Code, 2009 Edition plus the 2011 OBO International Code Supplement.  
International Mechanical Code, 2009 Edition plus the 2011 OBO International Code Supplement.  
International Fire Code, 2009 Edition plus the 2011 OBO International Code Supplement.  
National Electric Code, 2008 Edition plus the 2011 OBO International Code Supplement.  
International Residential Code 2009 Edition plus the 2011 OBO International Code Supplement.  
National Fire Protection Association, NFPA 101 & NFPA 58  
ICC/ANSI A117.1-98 Accessible and Usable Buildings and Facilities

### G.10.3 Responsibilities and Project Management

G.10.3.1. Management Personnel. The Contractor shall 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 photographic and written history of the project and shall update the Government weekly.

G.10.3.2. 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.

G.10.3.3. 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.

G.10.3.4. Health and Safety. The Contractor shall be solely responsible for risk assessments, managing health, and safety issues associated with this project. The Contractor must provide cold water to all workers at the job

sites. Based on hazard assessments, Contractors shall provide or afford each affected employee personal protective equipment (PPE) that will protect the employee from hazards. At a minimum PPE shall consist of eye protection, hard hats, and closed toe shoes. If the workers arrive on-site with sandals or athletic shoes, the Contractor is expected to provide rubber boots to them or send them home. All construction workers and management personnel must wear hard hats at all times on the construction sites. Contractor provided rubber boots and rubber gloves shall be worn when working around concrete placement. Other PPE such as gloves, dust masks, air respirators (sewage work) are also recommended. These items must be provided at the Contractor's expense. Workers may use discretion if they feel unsafe in using the equipment in a hostile environment. Any worker at an elevated location above 4 meters, with the exception of a portable ladder, must be provided and utilize a safety harness.

**H. CLAUSES****52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)**

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://acquisition.gov/far/index.html> or, <http://farsite.hill.af.mil/search.htm>

These addresses are subject to change. If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Dept. of State Acquisition Website at <http://www.statebuy.state.gov> to see the links to the FAR. You may also use an Internet “search engine” (e.g., Yahoo, Excite, Alta Vista, etc.) to obtain the latest location of the most current FAR.

**FEDERAL ACQUISITION REGULATION (48 CFR CH. 1)**

<u>Clause</u>	<u>Title and Date</u>
52.204-7	Central Contractor Registration (FEB 2012)
52.204-9	Personal Identification Verification of Contractor Personnel (JAN 2011)
52.204-10	Reporting Executive Compensation and First-Tier Subcontract Awards (JUL 2010)
52.209-6	Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (DEC 2010)
52.213-4	Terms and Conditions-Simplified Acquisitions (Other than Commercial Items) (AUG 2011)
52.222-1	Notice to the Government of Labor Disputes (FEB 1997)
52.222-19	Child Labor – Cooperation with Authorities and Remedies (AUG 2010)
52.222-50	Combating Trafficking in Persons (FEB 2009)
52.223-18	Encouraging Contractor Policies to Ban Text Messaging While Driving (AUG 2011)
52.225-10	Notice of Buy American Act/Balance of Payments Program—Construction Materials (FEB 2000)
52.225-13	Restrictions on Certain Foreign Purchases (JUN 2008)
52.225-14	Inconsistency Between English Version and Translation of Contract (AUG 1989)
52.225-19	Contractor Personnel in a Designed Operational Area or Supporting a Diplomatic Mission Outside the United States (MAR 2008)
52.228-3	Workers' Compensation Insurance -Defense Base Act (APR 1984)
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 (SEP 2009)
52.228-13	Alternative Payment Protection (JUL 2000)
52.229-6	Taxes - Foreign Fixed-Price Contracts (JUN 2003)
52.232-5	Payments under Fixed-Price Construction Contracts (SEP 2002)
52.232-8	Discounts for Prompt Payment (FEB 2002)
52.232-11	Extras (APR 1984)
52.232-18	Availability of Funds (APR 1984)
52.232-24	Prohibition of Assignment of Claims (JAN 1986)
52.232-27	Prompt Payment for Construction Contracts (OCT 2008)

52.232-33	Payment by Electronic Funds Transfer—Central Contractor Registration (OCT 2003)
52.232-34	Payment by Electronic Funds Transfer – Other than Central Contractor Registration (MAY 1999)
52.233-1	Disputes (JUL 2002) 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)
52.236-14	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)
52.236-26	Preconstruction Conference (FEB 1995)
52.242-14	Suspension Of Work (APR 1984)
52.243-4	Changes (JUNE 2007)
52.243-5	Changes and Changed Conditions (APR 1984)
52.244-6	Subcontracts for Commercial Items (DEC 2010)
52.245-9	Use & Charges (AUG 2010)
52.246-12	Inspection of Construction (AUG 1996)
52.246-21	Warranty of Construction (APR 1984)
52.249-2	Termination for Convenience of the Government (Fixed-Price) (MAY 2004) Alternate I (APR 1984)
52.249-14	Excusable Delay (APR 1984)
52.249-10	Default (Fixed-Price Construction) (APR 1984)

The following clauses are set forth in full text:

#### DEPARTMENT OF STATE ACQUISITION REGULATION (DOSAR) CLAUSES

#### 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)

**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 email 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)

**652.228-71 WORKER'S COMPENSATION INSURANCE (DEFENSE BASE ACT) - (JUN 2006)**

(a) This clause supplements FAR 52.228-3. For the purposes of this clause, "covered contractor employees" includes the following individuals:

- (1) United States citizens or residents;
- (2) Individuals hired in the United States or its possessions, regardless of citizenship; and
- (3) Local nationals and third country nationals where contract performance takes place in a country where there are no local workers compensation laws.

(b) The Contractor shall procure Defense Base Act (DBA) insurance pursuant to the terms of the contract between the Department of State and the Department's DBA insurance carrier for covered contractor employees, unless the Contractor has a DBA self-insurance program approved by the Department of Labor. The Contractor shall submit a copy of the Department of Labor's approval to the contracting officer upon contract award, if applicable.

(c) The current rate under the Department of State contract is \$5.50 of compensation for construction.

(d) The Contractor shall insert a clause substantially the same as this in all subcontracts. The Contractor shall require that subcontractors insert a similar clause in any of their subcontracts.

(e) Should the rates for DBA insurance coverage increase or decrease during the performance of this contract, the contracting officer shall modify this contract accordingly.

(f) The Contractor shall demonstrate to the satisfaction of the contracting officer that the equitable adjustment as a result of the insurance increase or decrease does not include any reserve for such insurance. Adjustment shall not include any overhead, profit, general and administrative expenses, etc.

(g)(1) Section 16 of the State Basic Authorities Act (22 U.S.C. 2680a), as amended, provides that the Defense Base Act shall not apply with respect to such contracts as the Secretary of State determines are contracts with persons employed to perform work for the Department of State on an intermittent basis for not more than 90 days in a calendar year. "Persons" includes individuals hired by companies under contract with the Department. The Procurement Executive has the authority to issue the waivers for Contractor employees who work on an intermittent or short-term basis.

(2) The Contractor shall submit waiver requests to the contracting officer. The request shall contain the following information:

- (i) Contract number;

- (ii) Name of Contractor;
  - (iii) Brief description of the services to be provided under the contract and country of performance;
  - (iv) Name and position title of individual(s);
  - (v) Nationality of individual(s) (must be U.S. citizen or U.S. resident);
  - (vi) Dates (or timeframe) of performance at the overseas location; and,
  - (vii) Evidence of alternative worker's compensation coverage for these employees (e.g., evidence that the State worker's compensation program covers workers on short-term foreign assignments).
- (3) The contracting officer shall provide to the Contractor the original of the approved or disapproved document and maintain a copy in the contract file.

(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 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.

#### 652.236-70 ACCIDENT PREVENTION (APR 2004)

(a) *General.* The contractor shall provide and maintain work environments and procedures which will safeguard the public and Government personnel, property, materials, supplies, and equipment exposed to contractor operations and activities; avoid interruptions of Government operations and delays in project completion dates; and, control costs in the performance of this contract. For these purposes, the contractor shall:

- (1) Provide appropriate safety barricades, signs and signal lights;
- (2) Comply with the standards issued by any local government authority having jurisdiction over occupational health and safety issues; and,
- (3) Ensure that any additional measures the contracting officer determines to be reasonably necessary for this purpose are taken.
- (4) For overseas construction projects, the contracting officer shall specify in writing additional requirements regarding safety if the work involves:
  - (i) Scaffolding;
  - (ii) Work at heights above two (2) meters;
  - (iii) Trenching or other excavation greater than one (1) meter in depth;
  - (iv) Earth moving equipment;

(v) 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;

(vi) 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.);

(vii) 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

(viii) Hazardous noise levels.

(b) *Records.* The contractor shall maintain an accurate record of exposure data on all accidents 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.

(c) *Subcontracts.* The contractor shall be responsible for its subcontractors' compliance with this clause.

(d) *Written program.* Before commencing work, the contractor shall:

(1) Submit a written plan to the contracting officer for implementing this clause. The plan shall include specific management or technical procedures for effectively controlling hazards associated with the project; and,

(2) Meet with the contracting officer to discuss and develop a mutual understanding relative to administration of the overall safety program.

(e) *Notification.* The contracting officer shall notify the contractor of any non-compliance with these requirements and the corrective actions required. This notice, when delivered to the contractor or the contractor's representative on site, shall be deemed sufficient notice of the non-compliance and corrective action required. After receiving the notice, the contractor shall immediately take corrective action. If the contractor fails or refuses to promptly take corrective action, the contracting officer may issue an order suspending all or part of the work until satisfactory corrective action has been taken. The contractor shall not be entitled to any equitable adjustment of the contract price or extension of the performance schedule on any suspension of work order issued under this clause.

(End of clause)

#### 652.242-73 AUTHORIZATION AND PERFORMANCE (AUG 1999)

(a) The contractor warrants the following:

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

(2) That it 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.

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.

**I. LIST OF ATTACHMENTS**

<b><u>ATTACHMENT NO.</u></b>	<b><u>DESCRIPTION OF ATTACHMENT</u></b>	<b><u>NO.PAGES</u></b>
Attachment 1	Standard Form 25, "Performance and Guaranty Bond"	2
Attachment 2	Standard Form 25A, "Payment Bond"	2
Attachment 3	Sample Bank Letter of Guaranty	1
Attachment 4	Breakdown of Price by Divisions of Specifications	1
Attachment 5	Drawings	1+28
Attachment 6	Specifications	41
Attachment 7	Defense Base Act Insurance Rates & Contact Information	2

## J. QUOTATION INFORMATION

### 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:

<u>Volume</u>	<u>Title</u>	<u>No. of Copies*</u>
I	Standard Form 1442 including a completed Attachment # 4, "BREAKDOWN OF PROPOSAL PRICE BY DIVISIONS OF SPECIFICATIONS.	<u>1</u>
II	Performance schedule in the form of a "bar chart" and Business Management – Technical Proposal.	<u>1</u>
III	Licenses (listed in part G of this section)	<u>1</u>

Submit the complete quotation to the e-mail address indicated on Standard Form 1442, ~~if mailed, or the address set forth below, if hand delivered.~~

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.

**C. 52.236-27 SITE VISIT (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 March 1, 2012, 10 a.m.

(c) Participants will meet at U.S. Consulate General, Ankawa Compound, Erbil.

**D. MAGNITUDE OF CONSTRUCTION PROJECT**

It is anticipated that the range in price of this contract will be: Between \$100,000 and \$250,000

**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/search.htm>

These addresses are subject to change. If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use of an Internet "search engine" (such as, Yahoo, Infoseek, Alta Vista, etc.) is suggested to obtain the latest location of the most current FAR.

<http://www.statebuy.state.gov>

**FEDERAL ACQUISITION REGULATION (48 CFR CH. 1)**

52.215-1 INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (JAN 2004), which is incorporated by reference into this solicitation.

**THE FOLLOWING DOSAR PROVISION IS PROVIDED IN FULL TEXT:****652.228-74 DEFENSE BASE ACT INSURANCE RATES – LIMITATION (JUN 2006)]**

(a) The Department of State has entered into a contract with an insurance carrier to provide Defense Base Act (DBA) insurance to Department of State covered contractor employees at a contracted rate. For the purposes of this provision, "covered contractor employees" includes the following individuals:

- (1) United States citizens or residents;
- (2) Individuals hired in the United States or its possessions, regardless of citizenship; and
- (3) Local nationals and third country nationals where contract performance takes place in a country where there are no local workers' compensation laws.

(b) In preparing the cost proposal, the bidder/offeror shall use the following rates in computing the cost for the DBA insurance:

Construction @ \$5.50 per \$100 of compensation.

(c) Bidders/Offerors shall compute the total compensation (direct salary plus differential, but excluding per diem, housing allowances) to be paid to covered contractor employees and the cost of DBA insurance in their

bid/proposal using the foregoing rate. Bidders/offerors shall include the estimated DBA insurance costs in their proposed fixed price or estimated cost. However, the DBA insurance costs shall be identified in a separate line item in the bid proposal.”

#### **G. LICENSES.**

The following licenses are required for companies that are taking part in this solicitation:

For Iraqi and foreign companies a copy of their company’s registration with the Kurdistan Regional Government.

For Joint Venture companies a copy of the agreement certified with the Kurdistan Regional Government.

**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.

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

### **L.1 52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (NOV 2011)**

(a)(1) The North American Industry Classification System (NAICS) codes for this acquisition are: 236220 for Construction Management for commercial and institutional buildings or warehouse construction; 237310 for Construction management for highways, roads, streets or bridges; 237990 for Construction Management for outdoor recreation facilities; 236118 for Construction Management for residential remodeling; 237110 for Construction Management for water and sewage lines and related structures.

(2) The small business size standard is \$33.5 million.

(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 clause at [52.204-7](#), Central Contractor Registration, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the clause at [52.204-7](#) is not included in this solicitation, and the offeror is currently registered in CCR, and has completed the ORCA electronically, 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 ORCA 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—

(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 \$150,000.

(iii) [52.204-3](#), Taxpayer Identification. This provision applies to solicitations that do not include the clause at [52.204-7](#), Central Contractor Registration.

(iv) [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.

(v) [52.209-2](#), Prohibition on Contracting with Inverted Domestic Corporations—Representation. This provision applies to solicitations using funds appropriated in fiscal years 2008, 2009, or 2010.

(vi) [52.209-5](#), Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

(vii) [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.

(viii) ~~[52.215-6](#), Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.~~

(ix) [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.

(x) [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.

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

(xii) [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.

(xiii) [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.

(xiv) [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.

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

(xvi) [52.225-2](#), Buy American Act Certificate. This provision applies to solicitations containing the clause at [52.225-1](#).

(xvii) [52.225-4](#), Buy American Act—Free Trade Agreements—Israeli Trade Act Certificate. (Basic, Alternate I, and Alternate II) 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 \$67,826, the provision with its Alternate II applies.

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

(xix) [52.225-20](#), Prohibition on Conducting Restricted Business Operations in Sudan—Certification. This provision applies to all solicitations.

(xx) [52.225-25](#), Prohibition on Contracting with Entities Engaging in Sanctioned Activities Relating to Iran—Representation and Certification. This provision applies to all solicitations.

(xxi) [52.226-2](#), Historically Black College or University and Minority Institution Representation. This provision applies to—

(A) Solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions; and

(B) For DoD, NASA, and Coast Guard acquisitions, solicitations that contain the clause at [52.219-23](#), Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns.

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

[Contracting Officer check as appropriate.]

\_\_ (i) [52.219-22](#), Small Disadvantaged Business Status.

\_\_ (A) Basic.

\_\_ (B) Alternate I.

\_\_ (ii) [52.222-18](#), Certification Regarding Knowledge of Child Labor for Listed End Products.

\_\_ (iii) [52.222-48](#), Exemption from Application of the Service Contract Act to Contracts for Maintenance, Calibration, or Repair of Certain Equipment Certification.

\_\_ (iv) [52.222-52](#), Exemption from Application of the Service Contract Act to Contracts for Certain Services—Certification.

\_\_ (v) [52.223-9](#), with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA—Designated Products (Alternate I only).

\_\_ (vi) [52.227-6](#), Royalty Information.

\_\_ (A) Basic.

\_\_ (B) Alternate I.

\_\_ (vii) [52.227-15](#), Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the Online Representations and Certifications Application (ORCA) website at <http://orca.bpn.gov>. After reviewing the ORCA database 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
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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 ORCA.

(End of provision)

**L.2 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.

**L.3 AUTHORIZED CONTRACT 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: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

**L.4 652.228-70 DEFENSE BASE ACT – COVERED CONTRACTOR EMPLOYEES (JUN 2006)**

(a) Bidders/offerors shall indicate below whether or not any of the following categories of employees will be employed on the resultant contract, and, if so, the number of such employees:

<b>Category</b>	<b>Yes/No</b>	<b>Number</b>
<i>(1) United States citizens or residents</i>		
<i>(2) Individuals hired in the United States, regardless of citizenship</i>		
<i>(3) Local nationals or third country nationals where contract performance takes place in a country where there are no local workers' compensation laws</i>		<i>Local nationals: _____</i> <i>Third Country Nationals: _____</i>
<i>(4) Local nationals or third country nationals where contract performance takes place in a country where there are local workers' compensation laws</i>		<i>Local nationals: _____</i> <i>Third Country Nationals: _____</i>

(b) The contracting officer has determined that for performance in the country of Iraq

Workers' compensation laws exist that will cover local nationals and third country nationals.

Workers' compensation laws do not exist that will cover local nationals and third country nationals.

(c) If the bidder/offeror has indicated "yes" in block (a)(4) of this provision, the bidder/offeror shall not purchase Defense Base Act insurance for those employees. However, the bidder/offeror shall assume liability toward the employees and their beneficiaries for war-hazard injury, death, capture, or detention, in accordance with the clause at FAR 52.228-4.

(d) If the bidder/offeror has indicated "yes" in blocks (a)(1), (2), or (3) of this provision, the bidder/offeror shall compute Defense Base Act insurance costs covering those employees pursuant to the terms of the contract between the Department of State and the Department's Defense Base Act insurance carrier at the rates specified in DOSAR 652.228-74, Defense Base Act Insurance Rates – Limitation. If DOSAR provision 652.228-74 is not included in this solicitation, the bidder/offeror shall notify the contracting officer before the closing date so that the solicitation can be amended accordingly.

**L.5 52.225-25 Prohibition on Contracting with Entities Engaging in Sanctioned Activities Relating to Iran—Representation and Certification. (Nov 2011)**

(a) *Definitions.*

"Person"—

(1) Means—

(i) A natural person;

(ii) A corporation, business association, partnership, society, trust, financial institution, insurer, underwriter, guarantor, and any other business organization, any other nongovernmental entity, organization, or group, and any governmental entity operating as a business enterprise; and

(iii) Any successor to any entity described in paragraph (1)(ii) of this definition; and

(2) Does not include a government or governmental entity that is not operating as a business enterprise. “Sensitive technology”—

(1) Means hardware, software, telecommunications equipment, or any other technology that is to be used specifically—

(i) To restrict the free flow of unbiased information in Iran; or

(ii) To disrupt, monitor, or otherwise restrict speech of the people of Iran; and

(2) Does not include information or informational materials the export of which the President does not have the authority to regulate or prohibit pursuant to section 203(b)(3) of the International Emergency Economic Powers Act ([50 U.S.C. 1702](#)(b)(3)).

(b) The offeror shall e-mail questions concerning sensitive technology to the Department of State at [CISADA106@state.gov](mailto:CISADA106@state.gov).

(c) Except as provided in paragraph (d) of this provision or if a waiver has been granted in accordance with [25.703-4](#), by submission of its offer, the offeror—

(1) Represents, to the best of its knowledge and belief, that the offeror does not export any sensitive technology to the government of Iran or any entities or individuals owned or controlled by, or acting on behalf or at the direction of, the government of Iran; and

(2) Certifies that the offeror, or any person owned or controlled by the offeror, does not engage in any activities for which sanctions may be imposed under section 5 of the Iran Sanctions Act. These sanctioned activities are in the areas of development of the petroleum resources of Iran, production of refined petroleum products in Iran, sale and provision of refined petroleum products to Iran, and contributing to Iran's ability to acquire or develop certain weapons or technologies.

(d) *Exception for trade agreements.* The representation requirement of paragraph (c)(1) and the certification requirement of paragraph (c)(2) of this provision do not apply if—

(1) This solicitation includes a trade agreements notice or certification (*e.g.*, [52.225-4](#), [52.225-6](#), [52.225-12](#), [52.225-24](#), or comparable agency provision); and

(2) The offeror has certified that all the offered products to be supplied are designated country end products or designated country construction material.

(End of provision)

**ATTACHMENT #1**

**STANDARD FORM 25, "PERFORMANCE AND GUARANTY BOND"**

<b>PERFORMANCE BOND</b> <i>(See instructions on reverse)</i>		DATE BOND EXECUTED <i>(Must be same or later than date of contract)</i>		OMB No. : 9000-0045	
Public reporting burden for this collection of information is estimated to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the FAR Secretariat (MVR), Federal Acquisition Policy Division, GSA, Washington, DC 20405.					
PRINCIPAL <i>(Legal name and business address)</i>			TYPE OF ORGANIZATION <i>(Check one)</i>		
			<input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input type="checkbox"/> CORPORATION		
			STATE OF INCORPORATION		
SURETY(IES) <i>(Name(s) and business address(es))</i>			PENAL SUM OF BOND		
			MILLION (S)	THOUSAND(S)	HUNDRED(S)
					CENT(S)
			CONTRACT DATE		CONTRACT NO.
<b>OBLIGATION:</b>					
We, the Principal and Surety(ies), are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of the Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.					
<b>CONDITIONS:</b>					
The Principal has entered into the contract identified above.					
<b>THEREFORE:</b>					
The above obligation is void if the Principal -					
(a) (1) Performs and fulfills all the undertakings, covenants, terms, conditions, and agreements of the contract during the original term of the contract and any extensions thereof that are granted by the Government, with or without notice to the Surety(ies), and during the life of any guaranty required under the contract, and (2) performs and fulfills all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of the contract that hereafter are made. Notice of those modifications to the Surety(ies) are waived.					
(b) Pays to the Government the full amount of the taxes imposed by the Government, if the said contract is subject to the Miller Act, (40 U.S.C. 270a-270e), which are collected, deducted, or withheld from wages paid by the Principal in carrying out the construction contract with respect to which this bond is furnished.					
<b>WITNESS:</b>					
The Principal and Surety(ies) executed this performance bond and affixed their seals on the above date.					
<b>PRINCIPAL</b>					
SIGNATURE (S)	1.	2.	3.	Corporate Seal	
		(Seal)	(Seal)		
NAME (S) & TITLE (S) <i>(Typed)</i>	1.	2.	3.	Corporate Seal	
<b>INDIVIDUAL SURETY(IES)</b>					
SIGNATURE (S)	1.	2.	Corporate Seal		
		(Seal)			
NAME (S) <i>(Typed)</i>	1.	2.	Corporate Seal		
<b>CORPORATE SURETY (IES)</b>					
SURETY A	NAME & ADDRESS	STATE OF INC.		LIABILITY LIMIT	
				\$	
	SIGNATURE (S)	1.	2.	Corporate Seal	
NAME (S) & TITLE (S) <i>(Typed)</i>	1.	2.			

CORPORATE SURETY (IES) (Continued)					
SURETY B	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) (Typed)	1.	2.		
SURETY C	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) (Typed)	1.	2.		
SURETY D	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) (Typed)	1.	2.		
SURETY E	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) (Typed)	1.	2.		
SURETY F	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) (Typed)	1.	2.		
SURETY G	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) (Typed)	1.	2.		

BOND PREMIUM	▶	RATE PER THOUSAND (\$)	TOTAL (\$)
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INSTRUCTIONS

- This form is authorized for use in connection with Government contracts. Any deviation from this form will require the written approval of the Administrator of General Services.
- Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
  - (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of approved sureties and must act within the limitation listed therein. Where more than one corporate surety is involved, their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)." In the space designated "SURETY(IES)" on the face of the form, insert only the letter identification of the sureties.
  - (b) Where individual sureties are involved, a completed Affidavit of Individual Surety (Standard Form 28) for each individual surety, shall accompany the bond. The Government may require the surety to furnish additional substantiating information concerning their financial capability.
- Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the word "Corporate Seal", and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.
- Type the name and title of each person signing this bond in the space provided.

**ATTACHMENT #2**

**STANDARD FORM 25A, "PAYMENT BOND"**

<b>PAYMENT BOND</b> <i>(See instructions on reverse)</i>		DATE BOND EXECUTED <i>(Must be same or later than date of contract)</i>		OMB No. :9000-0045	
<small>Public reporting burden for this collection of information is estimate to average 25 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the FAR Secretariat (MVR), Federal Acquisition Policy Division, GSA, Washington, DC 20405</small>					
PRINCIPAL <i>(Legal name and business address)</i>			TYPE OF ORGANIZATION <i>(Check one)</i>		
			<input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> JOINT VENTURE <input type="checkbox"/> CORPORATION		
			STATE OF INCORPORATION		
SURETY(IES) <i>(Name(s) and business address(es))</i>			<b>PENAL SUM OF BOND</b>		
			MILLION(S)	THOUSAND(S)	HUNDRED(S)
					CENTS
			CONTRACT DATE		CONTRACT NO.
<b>OBLIGATION:</b>					
We, the Principal and Surety(ies), are firmly bound to the United States of America (hereinafter called the Government) in the above penal sum. For payment of the penal sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally. However, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us. For all other purposes, each Surety binds itself, jointly and severally with the Principal, for the payment of the sum shown opposite the name of the Surety. If no limit of liability is indicated, the limit of liability is the full amount of the penal sum.					
<b>CONDITIONS:</b>					
The above obligation is void if the Principal promptly makes payment to all persons having a direct relationship with the Principal or a subcontractor of the Principal for furnishing labor, material or both in the prosecution of the work provided for in the contract identified above, and any authorized modifications of the contract that subsequently are made. Notice of those modifications to the Surety(ies) are waived.					
<b>WITNESS:</b>					
The Principal and Surety(ies) executed this payment bond and affixed their seals on the above date.					
<b>PRINCIPAL</b>					
SIGNATURE(S)	1.	2.	3.	Corporate Seal	
	(Seal)	(Seal)	(Seal)		
NAME(S) & TITLE(S) <i>(Typed)</i>	1.	2.	3.		
<b>INDIVIDUAL SURETY(IES)</b>					
SIGNATURE(S)	1.	2.			
		(Seal)	(Seal)		
NAME(S) <i>(Typed)</i>	1.	2.			
<b>CORPORATE SURETY(IES)</b>					
<b>SURETY A</b>	NAME & ADDRESS			STATE OF INC.	LIABILITY LIMIT
					\$
	SIGNATURE(S)	1.	2.	Corporate Seal	
NAME(S) & TITLE(S) <i>(Typed)</i>	1.	2.			
AUTHORIZED FOR LOCAL REPRODUCTION Previous edition is usable					
<b>STANDARD FORM 25A (REV. 10-98)</b> Prescribed by GSA FAR (48 CFR) 53.2228(c)					

CORPORATE SURETY (IES) (Continued)					
<b>SURETY B</b>	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) <i>(Typed)</i>	1.	2.		
<b>SURETY C</b>	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) <i>(Typed)</i>	1.	2.		
<b>SURETY D</b>	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) <i>(Typed)</i>	1.	2.		
<b>SURETY E</b>	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) <i>(Typed)</i>	1.	2.		
<b>SURETY F</b>	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) <i>(Typed)</i>	1.	2.		
<b>SURETY G</b>	NAME & ADDRESS		STATE OF INC.	LIABILITY LIMIT	Corporate Seal
	SIGNATURE (S)	1.	2.	\$	
	NAME(S) & TITLE (S) <i>(Typed)</i>	1.	2.		

**INSTRUCTIONS**

1. This form, for the protection of persons supplying labor and material, is used when a payment bond is required under the Act of August 24, 1935, 49 Stat. 793 (40 U.S.C. 270a-270e). Any deviation from this form will require the written approval of the Administrator of General Services.
2. Insert the full legal name and business address of the Principal in the space designated "Principal" on the face of the form. An authorized person shall sign the bond. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
3. (a) Corporations executing the bond as sureties must appear on the Department of the Treasury's list of approved sureties and must act within the limitation listed therein. Where more than one corporate surety is involved, their names and addresses shall appear in the spaces (Surety A, Surety B, etc.) headed "CORPORATE SURETY(IES)." In the space designated "SURETY(IES)" on the face of the form, insert only the letter identification of the sureties.
- (b) Where individual sureties are involved, a completed Affidavit of Individual Surety (Standard Form 28) for each individual surety, shall accompany the bond. The Government may require the surety to furnish additional substantiating information concerning their financial capability.
4. Corporations executing the bond shall affix their corporate seals. Individuals shall execute the bond opposite the word "Corporate Seal", and shall affix an adhesive seal if executed in Maine, New Hampshire, or any other jurisdiction requiring adhesive seals.
5. Type the name and title of each person signing this bond in the space provided.

**ATTACHMENT #3**

**SAMPLE LETTER OF BANK GUARANTY**

Place [        ]

Date [        ]

Contracting Officer  
U.S. Consulate General  
Ankawa Compound Erbil  
Kurdistan Region  
Republic of Iraq

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:

Location: \_\_\_\_\_

Representative(s): \_\_\_\_\_

State of Inc.: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Corporate Seal:

\_\_\_\_\_

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

**ATTACHMENT #4**

**UNITED STATES DEPARTMENT OF STATE  
BREAKDOWN OF PRICE BY DIVISIONS OF SPECIFICATIONS**

<b>Clin #</b>	<b>Description of Services</b>	<b>Est Quantity</b>	<b>Labor</b>	<b>Material</b>	<b>Over head</b>	<b>Profit</b>	<b>Total \$</b>
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<b>A</b>	<b>S-016 Residence S-018 Office Building S-037 CG Residence S-038 Warehouse</b>						
	<b>Administration:</b>						
A1	Mobilization/demobilization	1					
A2	Submittals-product, data & shop drawings	1					
A3	<b>Administration subtotal</b>					subtotal \$	
	<b>Construction works:</b>						
A4	Architectural	1					
A5	Mechanical	1					
A6	Plumbing	1					
A7	Electrical	1					
A8	Voice and data cabling	1					
A9	Close-out	1					
A10	<b>Construction works subtotal</b>					subtotal \$	

A11	<b>Subtotal costs for S-016, S-018, S-037 and S-038 buildings</b>	<b>line A3 + A10</b>						
-----	-------------------------------------------------------------------	----------------------	--	--	--	--	--	--

<b>B</b>	<b>DBA Insurance</b>						
B1	see solicitation section L.4 for instructions	1					

	<b>Basic Quote A11+B1</b>					<b>Contract Total \$</b>	
--	---------------------------	--	--	--	--	--------------------------	--

**Offeror:** \_\_\_\_\_

**Date** \_\_\_\_\_

**ATTACHMENT #5**

DRAWINGS

Drawings of each building attached to this document in the following sequence:

Attachment 5.1 building S-016

Attachment 5.2 building S-018

Attachment 5.3 building S-037

Attachment 5.4 building S-038

**ATTACHMENT #6**

**SPECIFICATIONS/STATEMENT OF WORK FOR BUILDINGS:**

S-016 – PAGE 41

S-018 – PAGE 52

S-037 - PAGE 62

S-038 – PAGE 71

## STATEMENT OF WORK FOR-S-016 R-1 (RESIDENCES)

General Construction Services for

RENOVATION (MAKE READY) OF COMPOUND HOUSING  
TO MEET INTERNATIONAL BUILDING AND SAFETY CODES.

U.S. CONSULATE Erbil, IRAQ

*August 26 2011*

### TABLE OF CONTENTS

1. PROJECT DESCRIPTION
2. BID FORM
3. SCOPE OF WORK

#### 1. PROJECT DESCRIPTION

##### Project Synopsis

The project is described as “Renovation of Property Number: S-016 (Residence) at the US Consulate, Erbil, Iraq. The Contractor should furnish all necessary materials, labor, transportation, equipments, investigation and supervision, etc. Work will performed within in fixed-price contract.

##### Background

At present the Residence S-016 does not meet US life safety, comfort nor security standards. The Residence must be upgrade to address various things such as wiring, windows, plumbing, electrical, mechanical and security concerns.

##### Solution

Improve life safety conditions by replacing electrical internal panel, and installing Ground Fault Circuit (GFI) for all areas as required. Confirm, repair and/or replace the ground in all electrical circuits within the building. Install additional circuits as necessary. Upgrade office condition by installing a small kitchenette, bathroom surfaces and fixtures. Upgrading the electrical system by changing the internal panel with a molded panel; make sure all the power outlets and equipments are grounded. Put all the wires and cables in conduit and using a water proof cover for all outdoor power outlets. Paint the exterior and interior.

#### 2. BID FORM

***See attachment 4 for CONSTRUCTION COST BREAKDOWN***

### 3. SCOPE OF WORK

RENOVATION OF PROPERTY NUMBER: S-016 (RESIDENCE) "MAKE READY" THE CONTRACTOR SHALL BE PROVIDING ALL MATERIALS, TOOLS AND EQUIPMENTS, LABORS, TRANSPORTATION, AND SUPERVISION.

#### A. ARCHITECTURAL

The contractor and his structural engineer are required to investigate each new opening, stairway support point, and equipment location for adequate structural support and their proposed work does not compromise the structural integrity of the building. The engineer should sketch or report the methods towards resolution before the work is done. The contractor's structural engineer should also investigate stairway construction and floor loading where residential space is being converted to office space.

#### General Notes for the Building:

1. Clean and polish all floors (interior and exterior) to original condition. Removing all plaster and other materials. Level interior floors as needed.
2. Provide and install vertical blinds for all windows. Provide sample of similar Blinds for approval. Currently there are no blinds on the windows.
3. Patch and Paint Interior walls. Color: Beige (flat).
4. Patch and Paint building Exterior walls. Color: Sand Brown (flat).
5. Patch and Paint Exterior Window grills where necessary. Color: White (semi-gloss).
6. Patch and Paint all interior ceilings. Color: White (flat).
7. Patch and Paint perimeter wall. Color: Sand Brown (flat).
8. Reduce the height of perimeter wall along the street leaving 40 cm from ground level. Patch top and sides of block wall for smooth surface and paint to match existing wall.
9. Remove and discard street entrance Door and Frame.
10. Prior to painting and patching pressure wash exterior of building and the perimeter walls.
11. Repair and finish all interior and exterior walls prior to painting-filling cracks, removing nails, etc from the walls.
12. Provide and install new rain water drain pipes.
13. All exterior and interior electrical and plumbing to be run in conduit that is esthetic to the buikding.
14. Repair all broken concrete walkway.
15. Remove and discard all fans, wiring, and rebar on ceilings.

16. Remove/reinstall, Patch/sand, Paint, (install new hardware -handles, hinges, etc.) all interior doors. doors. Color: Light Brown (flat).

17. Provide and Install in all bathrooms, shower, sink, toilet and the following bathroom fixtures: mirror above sink with the soap and tooth brush holder, towel bars (for sink and shower), toilet paper holder, shower curtain rod with the shower curtain, shower soap and shampoo holder/shelving, and handrail in the shower-as a safety item.

18. Provide and install new Kitchen cabinets and sink in Upstairs apartment B201.

19. Provide and install in all Kitchens a 25cm exhaust fan with louvers in the wall and switch located below the fan. Cut wall for installation.

20. Provide and install in all bathrooms a 25cm exhaust fan with louvers in the wall with switch located next to the light switch. Cut wall for installation.

21. Remove and discard all debris in/on and around the building.

22. Will need to work with local contractor who will install the fire safety Quick Window Release System in the two downstairs bedrooms.

23. Repair/Clean and tint all windows to reduce sunlight.

### **A.1 Apartment - A (Bottom):**

#### **Bathrooms A107 & A108:**

1. Provide and install new bathroom fixtures.

### **A.2 Apartment – B (Upper ):**

#### **Kitchen Room B201):**

1. Provide and install an AC unit.

2. Provide and install stackable washer and dryer with pipes/drain/vent connections.

3. Provide and install new water pipes and drain for kitchen sink.

4 Provide and install a door-way with frame at the top landing from the first floor. The wall should extend to the upper stairway leading to the roof and it should the opening to the first floor stairway to provide a privacy wall. The idea is to separate the first floor and second floor. See COR for instructions.

#### **Bedroom B202:**

1. Provide and install new interior door and frame.

Dining/Living Room B203:

1. Remove and discard interior door and frame.

Bathroom B204:

1. Provide and install new door/frame. Remove and discard existing door and frame.
2. Provide and install new bathroom fixtures.

Terrace B205:

1. Provide and install metal front door and frame, Turkish type. Similar to other installed door/frame on site. Contractor to dispose of exiting door and frame.
2. Confirm all terrace walls and railing meet the building codes stated earlier in this Statement of Work. Low walls, handrails, and guardrails shall meet construction and layout with IBC codes and the IBC criteria of 1012, 1013 and 1607.7. Provide and install Safety handrails where required to meet 107cm height from floor to top of rail."

Balcony B206:

1. Provide and install a new stairway from ground level to balcony with stairway handrail to 90 cm (36") and the landing handrail to 107 cm (42"). Stairway and Handrails shall meet IBC code in construction and layout along with IBC criteria of 1012, 1013 and 1607.7 and meets local codes. The stairway shall be built to the standards of the enclosed Structural Attachment to this Statement of Work document."
2. At the street and top landing on the stairway Provide and install fluorescent lights with covers. Provide and install a 2-way switch at the bottom step and the top landing of the stairway.
3. Provide and install metal front doors and frames, Turkish type to Bed Room B202 and Living Room B203. Similar to other installed door/frame on site. Contractor to dispose of exiting door and frame.
4. Provide and install new ceiling fan with rheostat near door light switch.
5. Confirm all terrace walls and railing meet the building codes stated earlier in this Statement of Work. Low walls, handrails, and guardrails shall meet construction and layout with IBC codes and the IBC criteria of 1012, 1013 and 1607.7. Provide and install Safety handrails where required to meet 107cm height from floor to top of rail."

**B. MECHANICAL WORK**

1. Provide and install two (2) new 24,000 Btu split-system direct-expansion heat pump units in two (2) rooms. Existing equipment shall be removed to a location designated by the Facility Manager. New equipment, including condenser units, shall be installed at locations to match existing. Provide or repair electric service and condensate drains as necessary. Penetrate wall for new tubing and electric service - do not run cable or tubing through windows; seal wall penetrations water-tight. Terminate all condensate drains at grade or nearest drain. Set new condenser units on pads or on existing pavement; do not set condenser units directly on the earth or any roof surface; provide new pads as necessary. Damage and penetrations of the roof shall

be sealed and flashed watertight. At the completion of the Work, provide equipment warranties to the Facility Manager.

2. Provide and install new domestic water pressure booster pump system at the city water connection. Pump shall be packaged duplex type, with sufficient pumping power to produce not less than 30 psi (2.1 bar) at the Roof Tank refill pipe. Replace piping as necessary. Provide warranty and service period for the installed equipment.
3. Provide and install one new Electric Water Heater (EWH) to serve the two (2) apartments. Remove and discard existing EWH's.
4. Provide and install P-traps on all drains except toilet.
5. In each apartment, provide and install plumbing and electrical connections for washers and dryers. Provide 4-inch (100 mm) metal dryer vent pipe from dryer location to the outdoors with no more than two (2) 90° turns, to prevent clogging vent. Terminate each vent with a gravity flapper/damper and removable rodent proof wire mesh. (See drawings for location).
6. Provide and install steel pipe for gas connection from source to flexible tubing between stove and steel pipe on first and second floor kitchens.
7. Replace hoses on all propane tanks with metal tubing with appropriate fittings; or with stainless-steel-reinforced hoses (aircraft-type); install new shutoff valves at each tank, and at each appliance (per NFPA 10).

## **C: STRUCTURAL WORK:**

### General

Modifications to either the existing superstructure or the applied loads, the addition of new structures, and restoration or rehabilitation of site structures shall be evaluated by a Structural Engineer.

The type of work requiring evaluation includes, but is not limited to:

- Modification of floors, walls, beams, and other load-bearing elements
- Installation of new equipment (e.g. safes, water tanks, HVAC equipment)
- Change of use or occupancy (e.g. residential to office)
- Installation of stairways
- Any other items which may be of interest to the Structural Engineer

### Qualifications

The Structural Engineer must:

- Be a licensed professional in accordance with the 2011 Building Code of Overseas Building Operations, Chapter 1.
- Be a Professional Engineer with Structural specialty
- Have prior experience with the structure type, local construction practices, and local materials used in the building being evaluated.
- Have the capacity to prepare or deliver documentation in the English language.

Where indigenous expertise is employed in execution of the work, the indigenous personnel shall:

- Be registered and/or licensed as a structural engineer in the local jurisdiction.
- Have prior experience with the types of buildings, local construction practices, and local materials.
- Have the capacity to prepare or deliver documents in the English language.
- Be under the direct supervision of the Structural Engineer

#### **D. ELECTRICAL WORK**

1. Provide and install a new Main Circuit Breaker Panel with a Circuit Breaker for each apartment rated 250A, 230/400V (3-Phase 4-wire plus ground) with 100A main circuit breaker with 24 circuit breaker positions (Single Pole Breakers) in each apartment distribution panel. Panel Board ampere interrupting capacity (AIC) rating shall be greater than the ampere short circuit available from the utility company at the panel. Provide SPD at or in panel in accordance with OBO specification 16289 Surge Protection Devices.
2. Establish a ground from panel to two ground rods (the ground rods must meet local codes) 3 meters long and spaced not less than 1.8M apart). Connect 35mm sq copper wires to each ground rod and the city water pipe to the main circuit breaker Panel. Impedance of ground path for any electrodes may not exceed 25 ohms. (NEC 250.56)
3. Connect service from MOE grid to new service panel.
4. Exhaust fans to be on separate switch at door next to light switch.
5. All circuits inside the house shall be in EMT conduit or similar.
6. GFCI Receptacles Shall not be used. Outlets designated GFCI protection shall be fed from a GFCI circuit breaker. One GFCI breaker, rated for 10mA or less ground fault trip. 50Hz, 240V (line to ground) shall be installed in an enclosure adjacent to the first receptacles in the branch circuit. The breaker will provide ground fault protection for all receptacles in the circuit. (kitchen, bathroom, outdoors).
7. Provide and install weatherproof energy-efficient outdoor lights where existing lights are presently installed. Remove and dispose of existing lighting fixtures.
8. Remove and dispose all unused wires, cables and panels. Repair any damage caused by work performed. Clean all work areas.
9. Provide and install new copper wiring throughout the building. The wiring to be THHN/THWN insulated, 600Volts rated equal to NEC #12 (4 mm square). Remove and dispose of all replaced wiring.
10. Conduits and Protection: All wiring and cabling shall be installed in metal conduit or Raceway.
11. Provide and install an electrical outlet along all Interior walls 3 meters apart in each room.
12. Provide and install AC weatherproof outlet on exterior wall near the outdoor condenser unit.

13. Provide and install new ceiling fans with Rheostat switches near light switch in all living rooms, dining rooms, bedrooms, and kitchens.
14. Provide and install new Fluorescent lighting fixtures (square down light types) with covers on each interior wall of the living and bedrooms with switches (living, 2-way) located at the entrances. Remove and dispose of all Existing lighting fixtures.
15. At the first landing between the two stairways and at the top landing provide and install fluorescent lights with cover. Provide and install a 2-way switch at the bottom floor and the top floor of the stairway.
16. Provide and install one (1) outdoor weatherproof electrical receptacle on the wall at each apartment entrance.
17. Provide and install one (1) outdoor weatherproof electrical receptacle on the wall of each Balcony/Terrace.
18. Provide and install electrical outlet in Bathrooms to include one for the newly installed exhaust fan. Exhaust fan to be on separate switch at door next to light switch.
19. Provide and install outdoor lights at each apartment entrance and balconies (front and rear) with switches on interior side of door way.
20. The contractor will provide a written report/form verifying the each receptacle has been inspected and passes a Ohmmeter AC ground fault loop impedance test along with a ground connection test.
21. All receptacles shall be 2-pole, 3-wire ground type. They must be local type or NEMA type receptacles.
22. Local standard receptacles may be rated 240v, 13A or 16A.

**E. Installation of Voice and Data Cable Network**

# **Telecommunications Cabling System for Residential Buildings**

## **FY09 Standard Design Requirements**

Bureau of Overseas Buildings Operations  
United States Department of State

### **TELECOMMUNICATIONS CABLING FOR RESIDENTIAL BUILDINGS**

#### **1.0 General**

Residential telecommunications cabling is any cabling installed in a residential unit (i.e. single family, multi-tenant, etc.) to provide telecommunications services to support telephone, television, data, audio, visual, and home automation. The standardized requirements for residential telecommunications cabling are based on the facilities that are necessary for existing and emerging telecommunications services.

#### **1.1 Contractor Qualifications**

1.1.1 Designers. The telecommunications firm to design a telecommunications cabling system for US residential units for OBO shall have 15 years experience designing cabling systems in accordance with ANSI/TIA/EIA and/or ISO/IEC standards listed in Paragraph 2.0. The firm shall provide an individual who has a bachelor's degree in

engineering/architecture or is a licensed, professional engineer (PE), and is a registered communications distribution designer (RCDD) with five years experience designing cabling systems for residential buildings.

1.1.2 Installers/Testers. The installation contractor shall be a firm regularly engaged in installing, terminating, and testing of Category X UTP with minimum bandwidth of 250 megahertz, and fiber optic cabling systems for the past five years. Experience shall be specific to installations to residential building and/or institutional type projects. The contractor shall have field supervisory personnel with experience equivalent to Building Industry Consulting Service International (BICSI) certified technician level.

Cabling shall be terminated and tested by field personnel with experience equivalent to BICSI installer level. The contractor's field personnel must be knowledgeable of and have experience with ANSI/TIA/EIA and/or ISO/IEC standards listed in paragraph 2.0 below.

## 2.0 Applicable Codes and Standards

ANSI/TIA/EIA 570-C Residential Telecommunications Cabling

ANSI/TIA/EIA 568-B.1 Commercial Building Telecommunications Cabling Standards Part 1: General Requirements (and all addenda) ANSI/TIA/EIA

568-B.2 Commercial Building Telecommunications Cabling Standards

Part 2: Balanced Twisted-Pair Cabling Components and all addenda

ANSI/TIA/EIA 568-B.3 Optical Fiber Cabling Components Standard (and all addenda)

ANSI/TIA/EIA 569-B Commercial Building Standard for Telecommunications Pathways and Spaces (and all addenda)

ANSI/TIA/EIA 606-A Administration Standard for Commercial Telecommunications Infrastructure

ANSI/JTC Joint Standard 607-A Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications

ANSI/TIA/EIA 758A Customer Owned Outside Plant Telecommunications Cabling Standard and all addenda

NFPA 70 National Electrical Code (latest edition)

ISO/IEC 11801 Information Technology – Generic Cabling for Customer Premises

BICSI Telecommunications Distribution Methods Manual – Latest Edition

ANSI/NECA/BICSI 568-2001 Installing Commercial Building Telecommunications Cabling.

**3.0 Design.** Telecommunications services are correlated to grades of cabling for residential units. The cabling infrastructure specifications are intended to include support for voice, data, home automation systems, environmental control, security, audio, television, and public address systems. It may be implemented for new construction, additions, and remodeled single and multi-tenant residential buildings. Refer to Table 3.0 to assist in selecting an appropriate cabling infrastructure for residence. For home automation cabling requirements, refer to the manufacturer's recommendations. Table 3.0 – Typical Residential Services

**4.0 Single Family Residences.** For single-family residences, the demarcation point is usually located on the outside of an exterior building wall. Contact the access provider to locate the demarcation point according to applicable regulations. Where the total length of cabling from the demarcation point to the furthest outlet exceeds 150 m, the access provider shall be notified at the design stage to accommodate transmission requirements. Auxiliary disconnect outlet (ADO) cables extend services from the demarcation point to an ADO. The ADO provides the means for the tenant to disconnect from an access provider. It is desirable to co-locate the ADO with the distribution device (DD). The ADO and DD shall be located indoors and be readily accessible.

4.1 Where a single residential unit is part of a multi-residential building (i.e. a townhouse), the ADO cable may extend from the floor-serving terminal to the ADO in the tenant space. A distribution device (DD) shall be provided within each residence. It is a cross-connect facility used for the termination and connection of outlet cables, DD cords, equipment cords, and in some cases, ADO cables. The DD is used for connection of access providers to the residence and to facilitate moves, adds and changes of premises cabling within the residence. Space should be allocated adjacent to or within the DD for the installation of a surge protection device for each conductive cable entering or leaving the building. The DD may consist of a passive cross connect facility or an active cross-connect facility or both. It shall be installed with the tenant space in a location that is accessible for cabling maintenance and minimizes the length of outlet cables. It may be mounted on a backboard, or recessed between stud spaces.

<b>Services</b>	<b>Cable Type</b>	<b>Cable Color</b>	<b>Color Connector</b>
Data	One 4 pair UTP CAT 6	Orange	Orange
Voice	One 4 pair UTP CAT 6	Blue	Blue
Television	One 75 ohm coaxial Series (RG) 6 or 11	White	White

The space allocation for a DD is determined by the number of telecommunications outlet/connectors to be installed in the residence. Refer to ANSI/TIA/EIA standard 570-C for guidance and information on planning the wall space that should be located for the DD and associated equipment. Outlet cables provide the transmission path from the DD to the telecommunications outlet/connector. The length of each outlet cable shall not exceed 90m. The 90-m length allows an operational length of 100 m, including patch cords, or jumper wire and equipment cords. An outlet cable may be connected through a transition point or consolidation point. The telecommunications outlet/connector shall be compatible with the media provided at that location. Some networks or services require application-specific electrical components (e.g. splitters, amplifiers, and impedance matching devices) at the telecommunications outlet/connector. These application specific electrical

components shall be placed external to the telecommunications outlet/connector. Equipment cords extend from the telecommunications outlet/connector to the terminal/equipment connector or from the DD to electronic equipment. Patch cords or jumpers are used for interconnections or cross-connections at the DD. For each channel, a total of 10 m is allowed for equipment cords and patch cords or jumpers.

**5.0 Multi-tenant residences.** In a multi-tenant or campus infrastructure, the cabling backbone, the associated backbone spaces, backbone pathways, and facility requirements are key components in providing services. The star topology shall be implemented for UTP and fiber optic backbone cabling. Coaxial backbone cabling shall be implemented using a star or bus topology. The associated backbone spaces shall include the entrance facility, equipment room, and floor serving terminal space. A floor serving terminal space is the space where backbone and ADO cables terminate. Locate at least one on each floor. The other functional spaces shall be implemented as stated in ANSI/TIA/EIA 570-C. The backbone pathways include intra-building backbone pathways and inter-building telecommunications backbone pathways. Refer to ANSI/TIA/EIA 569-B for more information on intra-building backbone pathways. Refer to ANSI/TIA/EIA-758 for more information on inter-building telecommunications backbone pathways.

**6.0 Fixed Devices.** Certain fixed devices such as intercom, security system keypads, sensors, and smoke detectors may be hard-wired to a fixed device controller. Fixed devices may be implemented using a star, loop, or daisy-chain topology according to the manufacture's recommendations.

**7.0 Outlet Locations.** A minimum of one outlet location shall be cabled within each of the following rooms: Kitchen, each bedroom, family/great room, and den/study. A sufficient number of telecommunications outlets shall be planned to prevent the need for extension cords. Additional outlet locations should be provided so that no point along the floor line in any wall space more than 7.6 m, measured horizontally, from an outlet location in that space. Outlet mounting heights shall be in accordance with applicable codes. Mount power and telecommunications outlets at the same height within a space. 1 Marine Security Guard Quarters (MSGQ). Data outlets are not permitted in Marine Security Guard (MSG) bedrooms. They are permitted in bedrooms intended for domestic staff and guests.

**8.0 Outlet Cable Pathways.** For new construction, pathways that conceal the cable shall be used as a means for placing outlet cable between a DD and the telecommunications outlet box or mounted bracket. Pathways that conceal the cable are recommended for remodeling construction. Typically, pre-wired cabling is accomplished by placing the cables through holes in walls and studs and ceiling joists before the walls and ceilings are sheathed. Refer to ANSI/TIA/EIA 569-B for other types of pathways.

**9.0 Audio/Visual.** Residences are often used for social functions for post personnel. Each residence shall be provided with audio/visual cabling system.

9.1 Doorbells. Provide a doorbell system for each residence. The doorbell shall include a chime and intercom system. The doorbell chime shall be heard in all areas of the residence including the pool/patio. Provide a local control panel on each level of the residence. If there is a pool/patio area, provide a control panel in the pool/patio area. The resident shall be able to communicate with visitors at the door from each level. Do not include a door opening function with the doorbell.

9.2 Audio. TBD.

9.3 Video. Provide cabling for cable television for each residence. Cable television outlets must be located in each bedroom, kitchen, family/great room, and den/study. Provide pathways and cabling for satellite television services in each residence from the roof of the residence, to the telecommunications space. See OBO-Specs 16750 and 16760 for cable requirements.

**10.0 Electrical Power.** An electrical outlet is required at the DD. A dedicated non-switchable duplex outlet rated at the host country's nominal voltage shall be provided within 1.5 m of the DD. The height of the electrical outlet should be appropriate for the DD and associated equipment being installed, and shall be in compliance with applicable codes. An electrical power outlet that is convenient to each telecommunications outlet in the residence shall also be provided. Locate the power outlet close enough to the telecommunications outlet to prevent the need for a power extension cord. Mount power outlets at the same height as telecommunications outlets.

**11.0 Cable Terminations.** Terminations for voice cabling shall be RJ-11 type of terminations. Terminations for data cabling shall be RJ-45. Information for television terminations shall be provided to the contractor as a site-specific requirement.

**12.0 Cable Administration.** Administration of the telecommunications infrastructure shall include documentation, (i.e. labels, records, drawings, reports, work orders, etc.) of cables, termination hardware, patching and cross-connect facilities, pathways, equipment, and telecommunications spaces. The cable administration scheme shall be developed in accordance with OBO-Specs 16726.

**13.0 Telecommunications Grounding and Bonding.** The telecommunications grounding and bonding system does not replace the main electrical grounding a bonding system, but supplements it with additional bonding that generally follows telecommunications cable pathways between telecommunications entrance facilities, equipment rooms, and telecommunications rooms. The grounding and bonding approach shall work in

concert with the cabling topology as specified in TIA/EIA 568 B.1, B.2, and B.3 and all their addenda and the ISO/IEC 11801. It shall provide a low noise, high bandwidth, wide dynamic range grounding system suitable for advanced technology telecommunications equipment. It shall be compliant with ANSI-J-STD 607-A, OBO-Specs 16710, and this document.

13.1 Infrastructure. The telecommunications grounding and bonding infrastructure originates with a connection to the service equipment (power) ground and extends throughout the building. It shall be comprised of five major components: the bonding conductor for telecommunications, the telecommunication main grounding busbar (TMGB), the telecommunications bonding backbone (TBB), the telecommunications grounding busbar (TGB), and the conductors used to bond the components together (which includes the Telecommunications Bonding Backbone Interconnecting Bonding Conductor (TBBIBC).

13.1.1 Bonding Conductor for Telecommunications. This is a conductor that bonds the TMGB to the service equipment (power) ground, which in turn is connected to the grounding electrode conductor. A conductor that is installed between telecommunications spaces (equipment rooms, telecommunications rooms, etc.) located on the top floor, third floor, and the ground floor is identified as the TBBIBC.

13.1.2 Telecommunications Bonding Backbone (TBB). This is a conductor that interconnects all TBBs with the TMGB. Its basic function is to reduce or equalize potential differences between telecommunications systems bonded to it. It extends throughout the building using the telecommunications backbone pathways and connects TGB(s) in all of the telecommunications rooms and equipment rooms.

13.1.3 Telecommunications Main Grounding Busbar (TMGB). This is a dedicated extension of the ground electrode system for the telecommunications infrastructure. It also serves as the central attachment point for the telecommunications backbone (TBB) and equipment. It shall also serve telecommunications equipment that is located within the same room or space.

13.1.4 Telecommunications Grounding Busbar (TGB). This is the common central point of connection for the telecommunications systems and equipment in the locations served by the telecommunications room or equipment room. It is also an extension of the TMGB and is located in each telecommunications room and equipment room.

**14.0 Lightning and Surge Protection.** Install primary protectors in each building's entrance facility, as close as possible to the building ground in order to allow ground conductor connection at the same point as the building ground. Primary protectors must be installed immediately adjacent to exposed cable plant point of entry. The grounding conductor must be routed as straight as possible to the building ground. Refer to OBO-Specs 16710 and 16740 for more information for grounding and communications entrance protection.

14.1 Primary and Secondary Protection. Both primary and secondary overvoltage protection shall be provided for outside plant cable where exposed. NFPA 70 requires primary protection for cable considered to be exposed to lightning, power line crossings, etc. Secondary protection is used to protect equipment from currents exceeding 0.35A (sneak currents). Sneak currents are not high enough to engage primary protectors but can cause damage to equipment and present a fire hazard if the current is sustained. Primary protectors shall be 489B with type 66 termination blocks to allow performance testing of OSP cable.

14.2 Protector units. Use an assembly that integrates both primary and secondary overvoltage and overcurrent protection rather than creates two protector fields. This will protect both personnel and equipment.

14.3 Protector panels. In service test points shall be provided so that faulty or blown modules can be determined without accidentally disengaging a working circuit when determining whether a module has operated or not.

**15.0 Testing.** The designer of the cable distribution system shall develop testing standards for the cable system. The test standards must meet or exceed OBO standards included and industry standards referenced in the OBO-Specs (16750 and 16760) and this document. The installation contractor shall perform pre-qualification testing during installation to ensure that the cabling system will pass the qualification testing. The government will obtain the services of an independent test firm to conduct acceptance testing of the cabling system. The contractor shall be present during acceptance testing of the cabling system to correct links or channels that fail. The contractor shall be financially responsible for extended stay or return trips to site of the independent test firm due to failure/correction to the cable plant.

15.1 The contractor shall provide a fully functional telecommunications infrastructure that includes coax, copper, and fiber optic horizontal and backbone cabling. To ensure this requirement, DOS through OBO/PE/DE/EEB will obtain the services of an independent test firm to test each segment of the infrastructure with specified test instrumentation and provide test results on a CD. The test data shall use the software format identified in OBO-ICS IBC appendix L101. The test package shall certify a 100 percent pass result of all cabling. Testing shall meet or exceed the minimum TIA/EIA 568B.1 standards to include 568B.2-1 for Category 6 cable and all other ratified addendums to the standards.

15.2 Copper acceptance testing for copper cable will be performed using minimum Level III tester for voice and data grade applications. Level III testers shall have documented factory calibration certification to within one year of the test date. Acceptance testing shall meet the appropriate

category level of installed cable as set forth in the TIA/EIA 568B standards. Acceptance category levels include Category 3, and Category 6 100-ohm cable.

15.3 Fiber acceptance testing for multi-mode fiber optic cable shall exceed minimum TIA/EIA 568B.1 testing requirements. Each fiber cable shall be tested with the instrumentation based on TIA/EIA 526.14A, Method B for multi-mode testing. Each fiber optic strand will be tested bi-directionally and at both operating windows. All tests shall be saved with test results not exceeding requirements provided in the OBO-Specs 16750 and 16760.

#### **F. Closeout**

- 1.The contractor is responsible to clean up daily after working hours.
- 2.At completion of work, the Contractor shall clean any impacted areas to a condition equal to original condition
- 3.All shipping materials and construction debris are to be disposed of in a legal manner outside of the Compound

## STATEMENT OF WORK FOR-S-018 R-2 (OFFICE BUILDING)

General Construction Services for

RENOVATION (MAKE READY) OF COMPOUND HOUSING  
TO MEET INTERNATIONAL BUILDING AND SAFETY CODES.

U.S. CONSULATE Erbil, IRAQ

*August 5, 2011*

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1. PROJECT DESCRIPTION
2. BID FORM
3. SCOPE OF WORK

#### 1. PROJECT DESCRIPTION

##### Project Synopsis

The project is described as “Renovation of Property Number: S-018 (Office Building) at the US Consulate, Erbil, Iraq. The Contractor should furnish all necessary materials, labor, transportation, equipments, investigation and supervision, etc. Work will performed within in fixed-price contract.

##### Background

At present the Residence S-018 does not meet US life safety, comfort nor security standards. The Residence must be upgrade to address various things such as wiring, windows, plumbing, electrical, mechanical and security concerns.

##### Solution

Improve life safety conditions by replacing electrical internal panel, and installing Ground Fault Circuit (GFI) for all areas as required. Confirm, repair and/or replace the ground in all electrical circuits within the building. Install additional circuits as necessary. Upgrade office condition by installing a small kitchenette, bathroom surfaces and fixtures. Upgrading the electrical system by changing the internal panel with a molded panel; make sure all the power outlets and equipments are grounded. Put all the wires and cables in conduit and using a water proof cover for all outdoor power outlets. Paint the exterior and interior.

#### 2. BID FORM

*See attachment 4 for CONSTRUCTION COST BREAKDOWN*

### 3. STATEMENT OF WORK

**RENOVATION OF PROPERTY NUMBER: S-018 (OFFICE BUILDING) "MAKE READY" THE CONTRACTOR SHALL BE PROVIDING ALL MATERIALS, TOOLS AND EQUIPMENTS, LABORS, TRANSPORTATION, AND SUPERVISION.**

#### **A. ARCHITECTURAL:**

The contractor and his structural engineer are required to investigate each new opening, stairway support point, and equipment location for adequate structural support and their proposed work does not compromise the structural integrity of the building. The engineer should sketch or report the methods towards resolution before the work is done. The contractor's structural engineer should also investigate stairway construction and floor loading where residential space is being converted to office space.

#### General Notes for the Building:

1. Clean and polish all floor tiles to original condition. Removing all plaster and other materials. Remove and disposed of all Carpet.
2. Provide and install vertical blinds for all windows. Provide sample of similar Blinds for approval. Currently there are no blinds on the windows.
3. Patch and Paint Interior walls. Color: Beige (flat).
4. Patch and Paint building Exterior walls. Color: Sand Brown (flat).
5. Patch and Paint all interior ceilings. Color: White (flat).
6. Patch and Paint perimeter wall. Color: Sand Brown (flat).
7. Remove/reinstall, Patch/sand, Paint, (install new hardware -handles, hinges, etc.) all interior doors. Color: Light Brown (flat). If necessary replace interior doors.
8. Prior to painting and patching pressure wash exterior of building and the perimeter walls.
9. Repair and finish all interior and exterior walls prior to painting-filling cracks, removing nails from the wall.
10. All exterior and interior electrical and plumbing to be run in conduit that is esthetic to the building.
11. Remove all metal frame and barbed wire from top of wall.
12. Remove and discard all screens from windows.
13. Rear Door Entrance-Replace/Repair concrete overhead cover (cracking).
14. Interior steps leading from first floor to second floor are of different heights, adjust steps for Safety.
15. Front Entrances at street. Install two (2) concrete step for normal entrance height at the Side-by-side entrances.

16. Front Entrance Doorway A114. Remove and dispose of toilet and sink. Cover plumbing pipes and drain.
17. Provide and install on the first floor new Kitchen cabinets and sink similar to existing Residence #6.
18. Remove and discard all fans, wiring, and rebar on ceilings.
19. Install new stair railing on stairs from balcony to roof top. Provide new handrails that meet the IBC criteria of 1021.3.1 at standard height of 90 cm (35.4inch). However, on the balcony and landing handrails should be 107 cm (42inch) from floor/step to top of rail. Stairway and Handrails shall meet IBC code in construction and layout along with IBC criteria of 1012, 1013 and 1607.7
20. Provide and install in the Kitchen a 25cm exhaust fan with louvers in the wall and switch located below the fan. Cut wall for installation.
21. Provide and install in the bathrooms a 25cm exhaust fan with louvers in the wall with switch located next to the light switch. Cut wall for installation.
22. Repair all broken concrete walkway.
23. Remove and discard double entrance gate at the driveway.
24. Remove and discard steel entrance gate at the street.
25. Rear Entrance Door. Remove and discard steel gate to Corridor A101.
26. Provide and install new PVC double pane low E windows with frames throughout house. (DOS Green Initiative, Energy Conservation). Discard existing windows and frames.
27. Contractor must supply “cleared escorts” at all job sites.

**Side Yard (left facing building):**

1. Paint door at street.
2. Remove metal frame and barbed wire from top of wall.
3. Provide and install steps from back entrance down into yard.
4. Remove/discard/repair piping along building wall
5. Provide necessary pipe to divert the rain spout from the street side to the side yard.

**First Floor:**

**Stairway from first to second floor:**

1. Provide and install material to construct all steps to equal height.

Room -A103 (Bathroom):

1. Provide and install standard toilet w/seat, urinal, sink and mirror; toilet paper holder next to toilet and towel holder next to sink. Provide and install a standard partition between urinal and sink/toilet. Remove and dispose of the existing toilet, shower and fixtures.
2. Provide and install a 25cm exhaust fan with louvers in the wall and switch located next to light switch. Cut wall for installation.
3. Provide and install light fixtures with switches.
4. Provide and install new interior entrance door with hardware.
5. Provide and install frosted window glass.
6. Outside entrance: Remove and discard sink. Cover plumbing pipes and drain.

Room -A104 (Storage Room):

1. Remove and discard toilet. Cover plumbing pipes and drain.
2. Remove and discard door and frame.

Room – A105 (Hallway)

1. Remove and discard door and frame between rooms A110 and A105.
2. Remove and discard door and frame between rooms A101 and A105.

Room – A106 (Office):

1. Remove and discard door and frame to Room A107.
2. Provide and install double door with frame that opens into Room A107.

Foyer – A108:

1. Remove and discard double steel gate at door entrance.
2. Paint doors to Rooms A107 and A109 light brown.

Room – A111 (Kitchen):

1. Remove and discard ceiling fan. Patch openings in ceiling.
2. Remove and discard door and frame to A112 Storage Room.
3. Remove and discard door and frame to Room A105.

Room – A112 (Storage):

1. Seal and patch all wall openings.
2. Remove and discard all plumbing and seal openings.

Room -A113 (office):

1. Remove and discard door and frame between rooms A110 and A113.
2. Provide and install new metal door to A114 Corridor. Remove and discard existing door and frame.

**Second Floor:**Room -A 205 (Bathroom)-Unisex:

1. Remove and dispose of existing entrance door.
2. Provide and install new interior door with hardware to open into the bathroom area from the Open area.
3. Provide and install standard toilet w/seat, urinal, sink and mirror; toilet paper holder next to toilet and towel holder next to sink. Provide and install standard partitions between urinal and sink/toilet. Remove and dispose of the existing toilet, shower, sink and fixtures.
4. Provide and install a 25cm exhaust fan with louvers in the wall and switch located next to light switch. Cut wall for installation.
5. Provide and install light fixtures with switches.
6. Provide and install new interior entrance door with hardware.
7. Provide and install frosted window glass.

**B. MECHANICAL WORK**

1. Provide and install thirteen (13) new 24,000 Btu split-system direct-expansion heat pump units in thirteen (13) rooms. Existing equipment shall be removed to a location designated by the Facility Manager. New condensers serving first floor heat pumps shall be located outside the building at ground level; condensers serving second floor heat pumps shall be located on the roof or balcony. Provide or repair electric service and condensate drains as necessary. Penetrate wall for new tubing and electric service - do not run cable or tubing through windows; seal wall penetrations water-tight. Terminate all condensate drains at grade or nearest drain. New condenser units shall be set upon pads or existing pavement; do not set condenser units directly on the earth or upon the roof surface. Damage and penetrations of the roof shall be sealed and flashed watertight at completion of the Work, provide equipment warranties to the Facility Manager.

2. Connect the plumbing pipe into the building from the balcony A208 water tank to the roof top A301 water tanks. Remove and discard the balcony water tanks. Remove all abandoned water piping and tanks from the potable water system entirely; no abandoned piping shall remain connected to the potable water system.

3. Provide and install three electric tank less hot water heaters: one each bathroom and one in kitchen.
4. Provide and install steel pipe for gas connection from source to flexible tubing between stove and steel pipe on first and second floor kitchens.
5. Replace hoses on all propane tanks with metal tubing with appropriate fittings; or with stainless steel reinforced hoses (aircraft-type); install new shut-off valves at each tank, and at each appliance (per NFPA 10) Perform and document leak tests on all joints and connections.
6. No abandoned piping shall remain connected to the potable water system – remove abandoned water piping entirely.
7. Provide and install P-traps on all drains except toilet.

### **C. ELECTRICAL WORK**

1. Provide and install a new outdoor service entrance panel. Rated 250Amps, 230/400Volts (3-Phase 4-wire plus ground) With 250Amps main circuit breaker and 32 breaker positions (Single pole breakers).
2. Provide and install two (2 each) 3 meter long copper ground rods 2 meters apart. Bond the two ground rods and tie one rod to the service entrance panel. (NEC 250.56)
3. Connect service from MOE grid to new service panel.
4. Provide and install GFI electrical outlet in Bathrooms and Kitchen and all wet areas. Exhaust fans to be on separate switch at door next to light switch.
5. All circuits inside the house shall be in EMT conduit or similar.
6. GFCI Receptacles Shall not be used. Outlets designated GFCI protection shall be fed from a GFCI circuit breaker. One GFCI breaker, rated for 10mA or less ground fault trip. 50Hz, 240V (line to ground) shall be installed in an enclosure adjacent to the first receptacles in the branch circuit. The breaker will provide ground fault protection for all receptacles in the circuit.
7. Provide and install weatherproof outdoor lights where existing lights are presently installed. Remove and dispose of existing lighting fixtures.
8. Remove and dispose all unused wires, cables and panels. Repair any damage caused by work performed. Clean all work areas.
9. Provide and install new copper wiring throughout the building. The wiring to be THHN/THWN insulated,

600Volts rated equal to NEC #12. Remove and dispose of all replaced wiring.

10. Conduit runs shall contain no more than four quarter turns (90 degree bends) between pull boxes (NEC)
11. Conduits and Protection: All wiring and cabling shall be installed in metal conduit or Raceway.
12. Provide and install a double gang (two outlets side by side) electrical outlet along all Interior walls 3 meters a part in each work station rooms.
13. Provide and install single outlets 3 meters a part in all non work station rooms (hallway, bathrooms, kitchen, etc.).
14. Provide and install AC outlet at each unit.
15. Provide and install new Fluorescent lighting fixtures with covers on each wall with switches located at the entrances of all rooms. Remove and dispose of all existing lighting fixtures.
16. At the first landing between the two stairways and at the top landing provide and install fluorescent lights with cover. Provide and install a 2-way switch at the bottom floor and the top floor of the stairway.
17. Provide and install one (1) outdoor weatherproof electrical receptacle on each exterior wall of the building. (Supply power through the wall of the room they are attached to).
18. The contractor will provide a written report/form verifying the each receptacle has been inspected and passes a Ohmmeter AC ground fault loop impedance test along with a ground connection test.
19. All receptacles shall be 2-pole, 3-wire ground type. They must be local type or NEMA type receptacles.
20. Local standard receptacles may be rated 240v, 13A or 16A.

#### **D. Installation of Voice and Data Cable Network**

*The vendor will provide a quotation for the installation of data and telephone cabling at the RRT compound in Erbil in accordance with the following standards:*

##### **Definitions:**

- ***Entrance Facilities***: where the building interfaces with the outside world.
- ***Equipment Rooms***: host equipment which serve users inside the building
- ***Backbone Cabling***: connection between the entrance facilities, equipment rooms and telecommunications rooms.
- ***Government Furnished Equipment (GFE)***: Materials and equipment provided by the U.S. Government to be installed by the Contractor.

• **Structured cabling:** design and installation is governed by a set of standards that specify wiring data centers and offices, for data or voice communications using category 6 cables (CAT6E) and modular sockets. These standards define how to configure and install the cabling in a star formation such that all outlets terminate at a central wall-mounted patch panel from where it can be determined exactly how these connections will be used. Each outlet can be 'patched' into a data network switch (ordinarily wall mounted alongside) or patched into a 'telecoms patch panel' which forms the bridge into a private branch exchange (PBX) telephone system thus making the connection a voice port.

• **Telephone/data:** outlet boxes shall be single gang, vertically mounted electrical boxes. Outlet boxes shall be flush-mounted whenever possible. Outlet box faceplates and telephone / data jacks shall be supplied and installed by the Cabling Contractor. The Contractor will provide as built drawing(s) showing location and deviation from standard vertical, flush mount.

### **Codes And Standards:**

- a) CAN/CSA-T529 (EIA/TIA568-A) - Electrical Installations
- b) CAN/CSA-T528 (EIA/TIA 606) - Wiring Systems Administration
- c) CAN/CSA-T527 (EIA/TIA 607) - Telecommunications Pathways and Spaces
- d) CAN/CSA-T527 (EIA/TIA 607) - Commercial Building Grounding /Bonding /Requirement Standards
- e) EIA/TIA, IEEE, FCC Standards - Data System Performance Standards
- f) IEEE Standard 1100 - Powering and Grounding Sensitive Electronic Equipment

### **The guidelines are:**

1. Supply and installation of all communication cables and associated termination components in accordance with the standards mentioned above. There are no differences in the cabling or connectors between data and telephone as standard used will be UTP CAT6E Plenum cable and RJ45 connector for CAT6E.
2. Ensure that internal cabling is kept clear of all power equipment and lighting fixtures as follows:
  - installation guidelines;
  - transformers up to 5 KVA 1m;
  - power lines (120v systems) 300mm;
  - fluorescent lighting 300mm;
  - power lines (600v systems) 1meter;
  - electrical motors -1 meter
3. Leave the main distribution frame copper ready to be terminated.
4. Identify all cables with numbered markers at both ends to as built drawings for record purposes.

5. Contractor will test for continuity, pair placement, pair reversal and incorrectly terminated cables, which will be verified and accepted by the Government.
6. Contractor will test and provide results for each pair according to:
  - Wire map;
  - Length;
  - Propagation delay and skew;
  - NEXT and FEXT;
  - NEXT @ Remote;
  - Attenuation;
  - Resistance impedance;
  - Power sum and return loss testing for all pairs
7. Test all cabling to be in accordance with EIA/TIA 568A-TSB-67. Provide full test output in electronic (test-file) format using the latest version of application software (MS WORD, MS EXCEL, Adobe Acrobat, etc.) Also, provide test summary sheets on paper.
8. Complete layout documentation of all wire closets and the cross connect frame shall be provided to the design engineer upon substantial completion of the project,

**Warranty:**

The Installation Contractor shall support the above system for a period of two years from the date of acceptance by American Embassy Baghdad/RRT Erbil. The response time to troubleshoot and begin repairs of reported failures will be four (4) hours. If the failure is a result of installation and/or performance of structured cabling, the failure will be repaired within 24 hours from the time of the report. If the failure is not installation and/or performance of structured cabling, the Contractor shall contact the Responsible Representative of the RRT to confirm and get approval to proceed. The Contractor shall make the effort to coordinate and get approval to proceed prior to any visit to the Ankawa compound.

**The work includes.**

1. Telephone: The US Consulate will provide a telephone backboard at each location.
2. Horizontal cabling: Contractor will provide and install four CAT-6 UTP cable from the IDF box to each room or location in raceway as home runs noted on attachment A without any splices.
3. Contractor will provide six or 110 block on the backboard for cross connects with wiring coming into the building.
4. The telephone wiring cross connects will be made by the government.
5. Contractor will provide and design all pathways to accommodate additional and diverse telecommunications requirements from the backboard to each outlet.

6. Work area Cat 6 cables must be terminated on industry standard eight pin modular Cat 6, unkeyed, RJ-45 jacks pinned to ANSI/EIA 568A standard.
7. Contractor shall provide and terminate at each drop three RJ-45 jacks, and Cat 6 UTP cable: one for telephone (blue), one for data (yellow) and one spare (green)
8. The telephone cable will terminate on the 110 or bix block on the backboard.
9. Contactor shall label all cabling and receptacle boxes as set forth in EIA standard 606 and do end to end testing (as noted in #6 above).
10. Data: The contractor will provide and install next to the backboard a standard black 19 inch wide (10-12 “U” tall) wall mounted telecom-munications rack (with exhaust fan and locking front door) to house a rack mounted UPS, two 24/48 port patch panels and a Cisco switch.
11. The UPS, patch panels and Cisco switch will be GFE.
12. Contractor will provide and install fiber optic jumper cables between the FO distribution panel and the switch as outlined in the building drawing.
13. Tests must ensure that the measure link loss for each strand does not exceed the “worst case” allowable loss defined as the sum of the connector loss (based on the number of mated connector pairs at the EIA/TIA-568-B maximum allowable loss of 0.75 dB per mater pair).
14. At completion of the project, contractor will ensure that all holes they made in the building are patched and the area painted to match to original colors, excess materials are removed, and the work area returned to its original state.

#### **E. Closeout**

1. The contractor is responsible to clean up daily after working hours.
2. At completion of work, the Contractor shall clean any impacted areas to a condition equal to original condition
3. All shipping materials and construction debris are to be disposed of in a legal manner outside of the Compound.

## STATEMENT OF WORK FOR-S-037 R-2 (CG RESIDENCE)

General Construction Services for

RENOVATION (MAKE READY) OF COMPOUND HOUSING  
TO MEET INTERNATIONAL BUILDING AND SAFETY CODES.

U.S. CONSULATE Erbil, IRAQ

*August 26, 2011*

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- A. PROJECT DESCRIPTION
- B. BID FORM
- C. SCOPE OF WORK

#### 1. PROJECT DESCRIPTION

##### Project Synopsis

The project is described as “Renovation of Property Number: S-037 (CG Residence) at the US Consulate, Erbil, Iraq. The Contractor should furnish all necessary materials, labor, transportation, equipments, investigation and supervision, etc. Work will performed within in fixed-price contract.

##### Background

At present the Residence S-037 does not meet US life safety, comfort nor security standards. The Residence must be upgrade to address various things such as wiring, windows, plumbing, electrical, mechanical and security concerns.

##### Solution

Improve life safety conditions by replacing electrical internal panel, and installing Ground Fault Circuit (GFI) for all areas as required. Confirm, repair and/or replace the ground in all electrical circuits within the building. Install additional circuits as necessary. Upgrade office condition by installing a small kitchenette, bathroom surfaces and fixtures. Upgrading the electrical system by changing the internal panel with a molded panel; make sure all the power outlets and equipments are grounded. Put all the wires and cables in conduit and using a water proof cover for all outdoor power outlets. Paint the exterior and interior.

#### 2. BID FORM

***See attachment 4 for CONSTRUCTION COST BREAKDOWN***

**3. STATEMENT OF WORK:**

**RENOVATION OF PROPERTY NUMBER: S-037 (CG RESIDENCE) "MAKE READY" THE CONTRACTOR SHALL BE PROVIDING ALL MATERIALS, TOOLS AND EQUIPMENTS, LABORS, TRANSPORTATION, AND SUPERVISION.**

**A. ARCHITECTURAL**

The contractor and his structural engineer are required to investigate each new opening, stairway support point, and equipment location for adequate structural support and their proposed work does not compromise the structural integrity of the building. The engineer should sketch or report the methods towards resolution before the work is done. The contractor's structural engineer should also investigate stairway construction and floor loading where residential space is being converted to office space.

**General Notes for the Building:**

1. Provide material to construct a new Bedroom and bathroom on the Terrace A202. (See drawings)
2. Materials shall be of highest available quality and shall match the existing material in finishes, colors, performance and durability.
3. Structural framing for the new bedroom area shall be reviewed by a structural engineer per the enclosed structural attachment.
4. The existing roof drainage system shall be evaluated and revised for the new 2<sup>nd</sup> floor bedroom. Roof drainage from the new bedroom may connect to existing drainage, gutters and/or downspouts. Those components shall be field verified to insure they can accommodate the additional water flow
5. The contractor shall rework the existing terrace's slopes and flashing with new waterproofing and flashings to accommodate the new expansion and prevent water penetrations into the new or existing structures.
6. Provide and install new PVC double pane low E window with frame in the room.  
(DOS Green Initiative, Energy Conservation) with security bars. (See drawing)
7. Provide and install a new window in the new bathroom with privacy glass.
8. Provide and install a new interior door with frame on the new bathroom.
9. Clean and finish all floor work areas (interior and exterior) to original condition. Removing all plaster and other materials.
10. Provide and install vertical blinds for the new bedroom window. Provide sample of similar blinds for approval.
11. Patch and Paint Interior walls, window frames (if required). Color: Beige (flat).
12. Patch and Paint all Exterior walls. Color: Match existing.
13. Patch and Paint interior ceilings. Color: White (flat).
14. Cut new door opening from Room A201 to A203.

15. Provide and install new hard core interior door with frame in new door opening between rooms A201 and A203.
16. Provide and install new hard core door with frame in new door opening between the Terrace A202 and the new bedroom A 203.
17. Repair and finish all interior and exterior walls prior to painting-filling cracks, removing nails from the wall.
18. Provide and install new drain pipes from the new roof. Match existing drain pipes.
19. All exterior and interior electrical and plumbing to be run in conduit that is esthetic to the building.
20. Provide and install new 32 mm diameter hand rail from first floor to second floor that meets the IBC criteria of "1012, 1013 and 1607.7" standard height of 90cm (35.4inch) but on the landings handrail should be 107cm (42inch) from the floor/step to top of handrail.
21. Provide and install wall (Gypsum board and metal frame) floor to ceiling for the new interior walls.
22. Provide and install in the new Bathroom A204, shower, sink, toilet, drains, and water pipes.
23. Provide and Install in the new bathroom the following bathroom fixtures: mirror above sink with the soap and tooth brush holder, towel bars (for sink and shower), toilet paper holder, shower curtain rod with the shower curtain, shower soap and shampoo holder/shelving, and handrail in the shower-as a safety item.
24. Provide and install in the new bathroom a 25cm exhaust fan with louvers in the wall and switch located next to the light switch.
25. Provide and install new tile flooring in the new bedroom/bathroom. (See COR for design/color).
26. Provide and install Insulated Sandwich Panel roof 10cm thick over A203 and A204.
27. Confirm all terrace walls and railing meet the building codes stated earlier in this Statement of Work. Low walls, handrails, and guardrails shall meet construction and layout with IBC codes and the IBC criteria of 1012, 1013, 1013 and 1607.7.

## **B. MECHANICAL WORK**

2. Provide and install one (1) new 24,000 Btu split-system direct-expansion heat pump units in one (1) room. Existing equipment shall be removed to a location designated by the Facility Manager. New equipment, including condenser units, shall be installed at locations to match existing. Provide or repair electric service and condensate drains as necessary. Penetrate wall for new tubing and electric service - do not run cable or tubing through windows; seal wall penetrations water-tight. Terminate all condensate drains at grade or nearest drain. Set new condenser units on pads or on existing pavement; do not set condenser units directly on the earth or any roof surface; provide new pads as necessary. Damage and penetrations of the roof shall be sealed and flashed watertight. At the completion of the Work, provide equipment warranties to the Facility Manager.
2. The AC unit shall be connected with a separate, properly sized electrical disconnect.

3. Reroute the AC condenser in the Study Room A201 and place the condenser on the concrete roof pad over Room A201.
4. Reroute the AC condenser on the Terrace A202 and place on pad behind the present location.
5. Provide and install P-traps on shower and sink drains.

## **C: STRUCTURAL WORK:**

### General

Modifications to either the existing superstructure or the applied loads, the addition of new structures, and restoration or rehabilitation of site structures shall be evaluated by a Structural Engineer.

The type of work requiring evaluation includes, but is not limited to:

- Modification of floors, walls, beams, and other load-bearing elements
- Installation of new equipment (e.g. safes, water tanks, HVAC equipment)
- Change of use or occupancy (e.g. residential to office)
- Installation of stairways
- Any other items which may be of interest to the Structural Engineer

### Qualifications

The Structural Engineer must:

- Be a licensed professional in accordance with the 2011 Building Code of Overseas Building Operations, Chapter 1.
- Be a Professional Engineer with Structural specialty
- Have prior experience with the structure type, local construction practices, and local materials used in the building being evaluated.
- Have the capacity to prepare or deliver documentation in the English language.

Where indigenous expertise is employed in execution of the work, the indigenous personnel shall:

- Be registered and/or licensed as a structural engineer in the local jurisdiction.
- Have prior experience with the types of buildings, local construction practices, and local materials.
- Have the capacity to prepare or deliver documents in the English language.
- Be under the direct supervision of the Structural Engineer

## **D. ELECTRICAL WORK**

1. Provide and install all circuit breakers with a ground.
2. GFCI Receptacles Shall not be used. Outlets designated GFCI protection shall be fed from a GFCI circuit breaker. One GFCI breaker, rated for 10mA or less ground fault trip. 50Hz, 240V (line to ground) shall be

installed in an enclosure adjacent to the first receptacles in the branch circuit. The breaker will provide ground fault protection for all receptacles in the circuit.

3. All circuits inside the house shall be in EMT conduit or similar.
4. All outdoor receptacles shall be installed in weatherproof box with cover.
5. Provide and install three (3) weatherproof outdoor lights around the exterior walls of the second floor on the Terrace side. Remove and dispose of existing lighting fixtures.
6. Provide and install new copper wiring in the new bedroom and bath room. The wiring to be THHN/THWN insulated, 600Volts rated equal to NEC #12 ((4 mm square). Remove and dispose of any replaced wiring.
7. Provide and install an electrical outlet along all Interior walls 3 meters apart in the bedroom.
8. Provide and install AC cutoff switch on exterior wall next to outdoor unit.
9. Provide and install new ceiling fan with Rheostat switch near light switch in the bedroom.
10. Provide and install new Fluorescent lighting fixtures (square down light types) with covers on each interior wall of the living and bedrooms with switches (living, 2-way) located at the entrances. Remove and dispose of all Existing lighting fixtures.
11. At the first landing between the two stairways and at the top landing provide and install fluorescent lights with cover. Provide and install a 2-way switch at the bottom floor and the top floor of the stairway.
12. Provide and install one (1) outdoor weatherproof electrical receptacle on the wall of the bedroom on the Terrace side.
13. Provide and install two (2) fluorescent lights fixtures with covers on the wall in the study area A201 and reroute the existing conduit around the new door.
14. The contractor will provide a written report/form verifying the each receptacle has been inspected and passes a Ohmmeter AC ground fault loop impedance test along with a ground connection test.
15. All receptacles shall be 2-pole, 3-wire ground type. They must be local type or NEMA type receptacles.
16. Local standard receptacles may be rated 240v, 13A or 16A.

**E. Installation of Voice and Data Cable Network**

# Telecommunications Cabling System For Residential Buildings FY09 Standard Design Requirements

Bureau of Overseas Buildings Operations  
United States Department of State

**TELECOMMUNICATIONS CABLING FOR RESIDENTIAL BUILDINGS****1.0 General**

Residential telecommunications cabling is any cabling installed in a residential unit (i.e. single family, multi-tenant, etc.) to provide telecommunications services to support telephone, television, data, audio, visual, and home automation. The standardized requirements for residential telecommunications cabling are based on the facilities that are necessary for existing and emerging telecommunications services.

**1.1 Contractor Qualifications**

1.1.1 Designers. The telecommunications firm to design a telecommunications cabling system for US residential units for OBO shall have 15 years experience designing cabling systems in accordance with ANSI/TIA/EIA and/or ISO/IEC standards listed in Paragraph 2.0. The firm shall provide an individual who has a bachelor's degree in engineering/architecture or is a licensed, professional engineer (PE), and is a registered communications distribution designer (RCDD) with five years experience designing cabling systems for residential buildings.

1.1.2 Installers/Testers. The installation contractor shall be a firm regularly engaged in installing, terminating, and testing of Category X UTP with minimum bandwidth of 250 megahertz, and fiber optic cabling systems for the past five years. Experience shall be specific to installations to residential building and/or institutional type projects. The contractor shall have field supervisory personnel with experience equivalent to Building Industry Consulting Service International (BICSI) certified technician level.

Cabling shall be terminated and tested by field personnel with experience equivalent to BICSI installer level. The contractor's field personnel must be knowledgeable of and have experience with ANSI/TIA/EIA and/or ISO/IEC standards listed in paragraph 2.0 below.

**2.0 Applicable Codes and Standards**

ANSI/TIA/EIA 570-C Residential Telecommunications Cabling

ANSI/TIA/EIA 568-B.1 Commercial Building Telecommunications Cabling Standards Part 1: General Requirements (and all addenda) ANSI/TIA/EIA

568-B.2 Commercial Building Telecommunications Cabling Standards

Part 2: Balanced Twisted-Pair Cabling Components and all addenda

ANSI/TIA/EIA 568-B.3 Optical Fiber Cabling Components Standard (and all addenda)

ANSI/TIA/EIA 569-B Commercial Building Standard for Telecommunications Pathways and Spaces (and all addenda)

ANSI/TIA/EIA 606-A Administration Standard for Commercial Telecommunications Infrastructure

ANSI/JTC Joint Standard 607-A Commercial Building Grounding (Earthing) and Bonding Requirements for Telecommunications

ANSI/TIA/EIA 758A Customer Owned Outside Plant Telecommunications Cabling Standard and all addenda

NFPA 70 National Electrical Code (latest edition)

ISO/IEC 11801 Information Technology – Generic Cabling for Customer Premises

BICSI Telecommunications Distribution Methods Manual – Latest Edition

ANSI/NECA/BICSI 568-2001 Installing Commercial Building Telecommunications Cabling.

**3.0 Design.** Telecommunications services are correlated to grades of cabling for residential units. The cabling infrastructure specifications are intended to include support for voice, data, home automation systems, environmental control, security, audio, television, and public address systems. It may be implemented for new construction, additions, and remodeled single and multi-tenant residential buildings. Refer to Table 3.0 to assist in selecting an appropriate cabling infrastructure for residence. For home automation cabling requirements, refer to the manufacturer's recommendations. Table 3.0 – Typical Residential Services

**4.0 Single Family Residences.** For single-family residences, the demarcation point is usually located on the outside of an exterior building wall. Contact the access provider to locate the demarcation point according to applicable regulations. Where the total length of cabling from the demarcation point to the furthest outlet exceeds 150 m, the access provider shall be notified at the design stage to accommodate transmission requirements. Auxiliary disconnect outlet (ADO) cables extend services from the demarcation point to an ADO. The ADO provides the means for the

tenant to disconnect from an access provider. It is desirable to co-locate the ADO with the distribution device (DD). The ADO and DD shall be located indoors and be readily accessible.

4.1 Where a single residential unit is part of a multi-residential building (i.e. a townhouse), the ADO cable may extend from the floor-serving terminal to the ADO in the tenant space. A distribution device (DD) shall be provided within each residence. It is a cross-connect facility used for the termination and connection of outlet cables, DD cords, equipment cords, and in some cases, ADO cables. The DD is used for connection of access providers to the residence and to facilitate moves, adds and changes of premises cabling within the residence. Space should be allocated adjacent to or within the DD for the installation of a surge protection device for each conductive cable entering or leaving the building. The DD may consist of a passive cross connect facility or an active cross-connect facility or both. It shall be installed with the tenant space in a location that is accessible for cabling maintenance and minimizes the length of outlet cables. It may be mounted on a backboard, or recessed between stud spaces.

<b>Services</b>	<b>Cable Type</b>	<b>Cable Color</b>	<b>Color Connector</b>
Data	One 4 pair UTP CAT 6	Orange	Orange
Voice	One 4 pair UTP CAT 6	Blue	Blue
Television	One 75 ohm coaxial Series (RG) 6 or 11	White	White

The space allocation for a DD is determined by the number of telecommunications outlet/connectors to be installed in the residence. Refer to ANSI/TIA/EIA standard 570-C for guidance and information on planning the wall space that should be located for the DD and associated equipment. Outlet cables provide the transmission path from the DD to the telecommunications outlet/connector. The length of each outlet cable shall not exceed 90m. The 90-m length allows an operational length of 100 m, including patch cords, or jumper wire and equipment cords. An outlet cable may be connected through a transition point or consolidation point. The telecommunications outlet/connector shall be compatible with the media provided at that location. Some networks or services require application-specific electrical components (e.g. splitters, amplifiers, and impedance matching devices) at the telecommunications outlet/connector. These application specific electrical components shall be placed external to the telecommunications outlet/connector. Equipment cords extend from the telecommunications outlet/connector to the terminal/equipment connector or from the DD to electronic equipment. Patch cords or jumpers are used for interconnections or cross-connections at the DD. For each channel, a total of 10 m is allowed for equipment cords and patch cords or jumpers.

**5.0 Multi-tenant residences.** In a multi-tenant or campus infrastructure, the cabling backbone, the associated backbone spaces, backbone pathways, and facility requirements are key components in providing services. The star topology shall be implemented for UTP and fiber optic backbone cabling. Coaxial backbone cabling shall be implemented using a star or bus topology. The associated backbone spaces shall include the entrance facility, equipment room, and floor serving terminal space. A floor serving terminal space is the space where backbone and ADO cables terminate. Locate at least one on each floor. The other functional spaces shall be implemented as stated in ANSI/TIA/EIA 570-C. The backbone pathways include intra-building backbone pathways and inter-building telecommunications backbone pathways. Refer to ANSI/TIA/EIA 569-B for more information on intra-building backbone pathways. Refer to ANSI/TIA/EIA-758 for more information on inter-building telecommunications backbone pathways.

**6.0 Fixed Devices.** Certain fixed devices such as intercom, security system keypads, sensors, and smoke detectors may be hard-wired to a fixed device controller. Fixed devices may be implemented using a star, loop, or daisy-chain topology according to the manufacture's recommendations.

**7.0 Outlet Locations.** A minimum of one outlet location shall be cabled within each of the following rooms: Kitchen, each bedroom, family/great room, and den/study. A sufficient number of telecommunications outlets shall be planned to prevent the need for extension cords. Additional outlet locations should be provided so that no point along the floor line in any wall space more than 7.6 m, measured horizontally, from an outlet location in that space. Outlet mounting heights shall be in accordance with applicable codes. Mount power and telecommunications outlets at the same height within a space. 1 Marine Security Guard Quarters (MSGQ). Data outlets are not permitted in Marine Security Guard (MSG) bedrooms. They are permitted in bedrooms intended for domestic staff and guests.

**8.0 Outlet Cable Pathways.** For new construction, pathways that conceal the cable shall be used as a means for placing outlet cable between a DD and the telecommunications outlet box or mounted bracket. Pathways that conceal the cable are recommended for remodeling construction. Typically, pre-wired cabling is accomplished by placing the cables through holes in walls and studs and ceiling joists before the walls and ceilings are sheathed. Refer to ANSI/TIA/EIA 569-B for other types of pathways.

**9.0 Audio/Visual.** Residences are often used for social functions for post personnel. Each residence shall be provided with audio/visual cabling system.

9.1 Doorbells. Provide a doorbell system for each residence. The doorbell shall include a chime and intercom system. The doorbell chime shall be heard in all areas of the residence including the pool/patio. Provide a local control panel on each level of the residence. If there is a pool/patio area,

provide a control panel in the pool/patio area. The resident shall be able to communicate with visitors at the door from each level. Do not include a door opening function with the doorbell.

9.2 Audio. TBD.

9.3 Video. Provide cabling for cable television for each residence. Cable television outlets must be located in each bedroom, kitchen, family/great room, and den/study. Provide pathways and cabling for satellite television services in each residence from the roof of the residence, to the telecommunications space. See OBO-Specs 16750 and 16760 for cable requirements.

**10.0 Electrical Power.** An electrical outlet is required at the DD. A dedicated non-switchable duplex outlet rated at the host country's nominal voltage shall be provided within 1.5 m of the DD. The height of the electrical outlet should be appropriate for the DD and associated equipment being installed, and shall be in compliance with applicable codes. An electrical power outlet that is convenient to each telecommunications outlet in the residence shall also be provided. Locate the power outlet close enough to the telecommunications outlet to prevent the need for a power extension cord. Mount power outlets at the same height as telecommunications outlets.

**11.0 Cable Terminations.** Terminations for voice cabling shall be RJ-11 type of terminations. Terminations for data cabling shall be RJ-45. Information for television terminations shall be provided to the contractor as a site-specific requirement.

**12.0 Cable Administration.** Administration of the telecommunications infrastructure shall include documentation, (i.e. labels, records, drawings, reports, work orders, etc.) of cables, termination hardware, patching and cross-connect facilities, pathways, equipment, and telecommunications spaces. The cable administration scheme shall be developed in accordance with OBO-Specs 16726.

**13.0 Telecommunications Grounding and Bonding.** The telecommunications grounding and bonding system does not replace the main electrical grounding a bonding system, but supplements it with additional bonding that generally follows telecommunications cable pathways between telecommunications entrance facilities, equipment rooms, and telecommunications rooms. The grounding and bonding approach shall work in concert with the cabling topology as specified in TIA/EIA 568 B.1, B.2, and B.3 and all their addenda and the ISO/IEC 11801. It shall provide a low noise,

high bandwidth, wide dynamic range grounding system suitable for advanced technology telecommunications equipment. It shall be compliant with ANSI-J-STD 607-A, OBO-Specs 16710, and this document.

13.1 Infrastructure. The telecommunications grounding and bonding infrastructure originates with a connection to the service equipment (power) ground and extends throughout the building. It shall be comprised of five major components: the bonding conductor for telecommunications, the telecommunication main grounding busbar (TMGB), the telecommunications bonding backbone (TBB), the telecommunications grounding busbar (TGB), and the conductors used to bond the components together (which includes the Telecommunications Bonding Backbone Interconnecting Bonding Conductor (TBBIBC).

13.1.1 Bonding Conductor for Telecommunications. This is a conductor that bonds the TMGB to the service equipment (power) ground, which in turn is connected to the grounding electrode conductor. A conductor that is installed between telecommunications spaces (equipment rooms, telecommunications rooms, etc.) located on the top floor, third floor, and the ground floor is identified as the TBBIBC.

13.1.2 Telecommunications Bonding Backbone (TBB). This is a conductor that interconnects all TBBs with the TMGB. Its basic function is to reduce or equalize potential differences between telecommunications systems bonded to it. It extends throughout the building using the telecommunications backbone pathways and connects TGB(s) in all of the telecommunications rooms and equipment rooms.

13.1.3 Telecommunications Main Grounding Busbar (TMGB). This is a dedicated extension of the ground electrode system for the telecommunications infrastructure. It also serves as the central attachment point for the telecommunications backbone (TBB) and equipment. It shall also serve telecommunications equipment that is located within the same room or space.

13.1.4 Telecommunications Grounding Busbar (TGB). This is the common central point of connection for the telecommunications systems and equipment in the locations served by the telecommunications room or equipment room. It is also an extension of the TMGB and is located in each telecommunications room and equipment room.

**14.0 Lightning and Surge Protection.** Install primary protectors in each building's entrance facility, as close as possible to the building ground in order to allow ground conductor connection at the same point as the building ground. Primary protectors must be installed immediately adjacent to exposed cable plant point of entry. The grounding conductor must be routed as straight as possible to the building ground. Refer to OBO-Specs 16710 and 16740 for more information for grounding and communications entrance protection.

14.1 Primary and Secondary Protection. Both primary and secondary overvoltage protection shall be provided for outside plant cable where exposed. NFPA 70 requires primary protection for cable considered to be exposed to lightning, power line crossings, etc. Secondary protection is

used to protect equipment from currents exceeding 0.35A (sneak currents). Sneak currents are not high enough to engage primary protectors but can cause damage to equipment and present a fire hazard if the current is sustained. Primary protectors shall be 489B with type 66 termination blocks to allow performance testing of OSP cable.

14.2 Protector units. Use an assembly that integrates both primary and secondary overvoltage and overcurrent protection rather than creates two protector fields. This will protect both personnel and equipment.

14.3 Protector panels. In service test points shall be provided so that faulty or blown modules can be determined without accidentally disengaging a working circuit when determining whether a module has operated or not.

**15.0 Testing.** The designer of the cable distribution system shall develop testing standards for the cable system. The test standards must meet or exceed OBO standards included and industry standards referenced in the OBO-Specs (16750 and 16760) and this document. The installation contractor shall perform pre-qualification testing during installation to ensure that the cabling system will pass the qualification testing. The government will obtain the services of an independent test firm to conduct acceptance testing of the cabling system. The contractor shall be present during acceptance testing of the cabling system to correct links or channels that fail. The contractor shall be financially responsible for extended stay or return trips to site of the independent test firm due to failure/correction to the cable plant.

15.1 The contractor shall provide a fully functional telecommunications infrastructure that includes coax, copper, and fiber optic horizontal and backbone cabling. To ensure this requirement, DOS through OBO/PE/DE/EEB will obtain the services of an independent test firm to test each segment of the infrastructure with specified test instrumentation and provide test results on a CD. The test data shall use the software format identified in OBO-ICS IBC appendix L101. The test package shall certify a 100 percent pass result of all cabling. Testing shall meet or exceed the minimum TIA/EIA 568B.1 standards to include 568B.2-1 for Category 6 cable and all other ratified addendums to the standards.

15.2 Copper acceptance testing for copper cable will be performed using minimum Level III tester for voice and data grade applications. Level III testers shall have documented factory calibration certification to within one year of the test date. Acceptance testing shall meet the appropriate category level of installed cable as set forth in the TIA/EIA 568B standards. Acceptance category levels include Category 3, and Category 6 100-ohm cable.

15.3 Fiber acceptance testing for multi-mode fiber optic cable shall exceed minimum TIA/EIA 568B.1 testing requirements. Each fiber cable shall be tested with the instrumentation based on TIA/EIA 526.14A, Method B for multi-mode testing. Each fiber optic strand will be tested bi-directionally and at both operating windows. All tests shall be saved with test results not exceeding requirements provided in the OBO-Specs 16750 and 16760.

## **F Additional Requirement**

Renovation of residence S-037 will start after a separate Notice To Proceed which is estimated to be mid April 2012

## **G Closeout**

1. The contractor is responsible to clean up daily after working hours.
2. At completion of work, the Contractor shall clean any impacted areas to a condition equal to original condition.
3. All shipping materials and construction debris are to be disposed of in a legal manner outside of the Compound.

## STATEMENT OF WORK FOR-S-038 R-3 (WAREHOUSE)

General Construction Services for

RENOVATION (MAKE READY) OF COMPOUND HOUSING  
TO MEET INTERNATIONAL BUILDING AND SAFETY CODES.

U.S. CONSULATE Erbil, IRAQ

*August 15, 2011*

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1. PROJECT DESCRIPTION
2. BID FORM
3. SCOPE OF WORK

#### 1. PROJECT DESCRIPTION

##### Project Synopsis

The project is described as “Renovation of Property Number: S-038 (Warehouse) at the US Consulate, Erbil, Iraq. The Contractor should furnish all necessary materials, labor, transportation, equipments, investigation and supervision, etc. Work will performed within in fixed-price contract.

##### Background

At present the Residence S-038 does not meet US life safety, comfort nor security standards. The residence must be upgrade to address various things such as wiring, windows, plumbing, electrical, mechanical and security concerns.

##### Solution

Improve life safety conditions by replacing electrical internal panel, and installing Ground Fault Circuit (GFI) for all areas as required. Confirm, repair and/or replace the ground in all electrical circuits within the building. Install additional circuits as necessary. Upgrade office condition by installing a small kitchenette, bathroom surfaces and fixtures. Upgrading the electrical system by changing the internal panel with a molded panel; make sure all the power outlets and equipments are grounded. Put all the wires and cables in conduit and using a water proof cover for all outdoor power outlets. Paint the exterior and interior.

#### 2. BID FORM

***See attachment 4 for CONSTRUCTION COST BREAKDOWN***

### 3. STATEMENT OF WORK:

**RENOVATION OF PROPERTY NUMBER: S-038 (WAREHOUSE) "MAKE READY" THE CONTRACTOR SHALL BE PROVIDING ALL MATERIALS, TOOLS AND EQUIPMENTS, LABORS, TRANSPORTATION, AND SUPERVISION.**

#### **A. ARCHITECTURAL**

The contractor and his structural engineer are required to investigate each new opening, stairway support point, and equipment location for adequate structural support and their proposed work does not compromise the structural integrity of the building. The engineer should sketch or report the methods towards resolution before the work is done. The contractor's structural engineer should also investigate stairway construction and floor loading where residential space is being converted to office space.

#### **General Notes for the Building:**

1. Clean and polish all floor tiles (interior and exterior) to original condition. Removing all plaster and other materials.
2. Patch and Paint Interior walls in rooms: A102, A103, A105, A202 and A204. Color: White (semi-gloss).
3. Patch and Paint building Exterior walls. Color: Sand Brown (flat).
4. Patch and Paint Exterior Window frames, grills. Color: White (semi-gloss).
5. Patch and Paint perimeter wall. Color: Sand Brown (flat).
6. Remove and dispose of all interior doors and frames.
7. Patch top and street side of block wall for smooth surface and paint. Color: Sand Brown.
8. Patch and paint entrance Gates. Color: White (semi-gloss)
9. Prior to painting and patching pressure wash exterior of building and the perimeter walls.
10. Repair and finish all interior and exterior walls prior to painting-filling cracks, removing nails, etc. from the wall.
11. Provide and replace all broken window glass. Clean all windows interior and exterior.
12. Provide and install new drain pipes on outside walls.
13. All exterior and interior electrical to be run in conduit that is esthetic to the building.
14. Repair all broken concrete walkway.
15. Remove and discard all fans and wiring on ceilings. Evaluate and determine if remaining rebar in the ceiling can be removed by a licensed structural engineer per the attached Structural Attachment. After investigation and report, if the rebar can be removed safely and without compromise to the building then remove it.

16. Provide and Install in the first and second floor bathrooms the following bathroom fixtures: toilet and sink mirror above sink with the soap holder, towel bar toilet paper holder. Remove, discard existing toilets and sinks.
17. Provide and install new exhaust 25cm fans with louvers in the first and second floor bathrooms. Cut wall for installation.
18. Patch and paint existing office, bathroom doors and frames. Color: Light Brown (flat).
19. Remove and discard outdoor AC window frame on second floor.
20. Remove and discard all debris in and around the building and deposit off compound.
21. Remove and discard block wall around outdoor toilet.
22. Repair/Clean and tint all windows to reduce sunlight.

### **First Floor:**

#### **Entrance Doors (A101 & A103):**

1. Expand the opening on the two entrance doors at A101 and A103 to 122cm.
2. Provide and install new hard core exterior double doors with frames at A101 and A103. Contractor to dispose of exiting doors and frames.
3. Remove existing security bars on entrance doors. Give to Facility Maintenance.
4. Room A105, work room. Provide and replace new safety window over work bench.
5. Provide and install new exhaust 25cm fan with louvers in the workshop A105 over work bench with switch at room entrance door. Cut wall for installation.
6. Provide and install hard core door with frame on workshop A105 to suppress noise. Discard existing door and frame.

### **Second Floor Balcony: (upper and lower)**

1. Provide and Install set of stairs with rail from room A204 down to the lower balcony (A205).
2. Widen the opening on the upper balcony. 91cm wide, 198cm high. Patch wall to match existing wall.
3. Provide and install two steps without rail from the lower balcony to upper balcony A206).
4. Upper balcony remove and discard the top of the balcony wall. Patch wall and add safety railing around wall 107cm above upper balcony floor level and shall meet the standards of IBC code in particular IBC 1013 and 1607.7.
5. Patch and paint upper balcony wall. Color: Sand Brown (flat).

6. Cut and remove rebar sticking out of back wall of upper balcony. Patch and paint.

## **B. STRUCTURAL WORK**

Provide investigation, recommendations and any modifications to structural components in accordance with the below statement:

### EVALUATIONS AND STRUCTURAL WORK

#### Evaluation

The goals of the evaluation are to:

- To understand the existing structure
- To understand the modifications proposed in the Statement of Work
- Conclude whether existing structure can accommodate the proposed modifications
- Propose alternative solutions as necessary to implement the modifications and maintain structural capacity and function.
- Specify criteria, details, and procedures as needed to ensure execution of the work in accordance with good practice and the 2011 Building Code of OBO.

The scope of the evaluation shall include:

- Data collection:
  - Date of original construction
  - Original use and occupancy
  - Current use and occupancy
  - Dates of changes in use and occupancy
  - Identification and dates of any structural modifications or renovations after the original construction.
  - Original construction drawings. State the sources searched and whether the search was successful in locating the original drawings.
- Visual inspection of the overall structure to:
  - Detect signs of damage, deterioration, or serviceability issues (e.g. excessive deflection).
  - Identify load bearing and non-load bearing elements
  - Comprehend the vertical and lateral load paths.
  - Understand the materials, structural system, method of construction, and quality of construction.
  - Obtain photographs of the structure.
- Visual inspection of the specific areas of modification to:
  - Understand how the modifications will be implemented in the field.
  - Evaluate the impact to the structure.
  - Obtain photographs of the areas to be modified.
- An assessment of the uniform and concentrated live load capacity of the structure's elevated floors and balconies. The assessment shall include:
  - Declaration of and justification for a lower-bound uniform live load capacity.
  - Declaration of and justification for a lower-bound concentrated live load capacity, and any qualifications regarding positioning of the concentrated load (e.g. only over beams, certain portions of beams, or columns).

- An assessment of the uniform and concentrated live loads required by the 2011 Building Code of OBO for the original occupancy, current occupancy, and any new structural elements. The assessment shall note increases or decreases in live load requirements due to changes in use and occupancy, and construction of new structural elements.
- Recommendations for structural modifications where necessary to increase the structural capacity to meet the live load requirements of the proposed use and occupancy.
- Assessment of the scope of work and specification of criteria, details, and procedures to execute the work in accordance with good practice and the 2011 Building Code of OBO.

The structural concerns to be addressed by the Structural Engineer in the Evaluation include, but are not limited to:

- **Demolition and patching of site perimeter-walls:**
  - Define and/or review and approve the procedures and materials used to patch the top surfaces of the walls to reduce the risk of future deterioration of reinforcement (if any) and debonding of the patch materials.
- **Patching of building elements, where patching extends beyond the finish materials into the structural elements:**
  - Photograph the location and provide a dimensioned sketch of the existing conditions.
  - Provide a narrative opinion on whether the repair is structural or non-structural.
  - If the repair is structural, define and/or review and approve the procedures and materials used to construct the patch.
- **Repair of broken concrete walkway:**
  - Evaluate whether repair is feasible and effective.
  - If repair is not feasible or effective, define extent of demolition and replacement with new concrete walkway.
  - Specify concrete materials and installation procedures.
- **Removal of rebar from ceilings:**
  - Determine whether reinforcement had/has any structural purpose.
  - Define and/or review/approve repair or removal procedures.
- **New or modified handrails and guardrails:**
  - Review/approve handrails/guardrails/etc. shop drawings to ensure documentation states the required loading and that the design provides the appropriate capacity.
- **Installation of exhaust fans in kitchens and bathrooms:**
  - Evaluate the impact of the new hole(s) in the wall for the exhaust fan, ductwork, or other associated components.
- **Installation of new masonry or concrete partitions:**
  - Confirm the existing structure can support the weight of the new partitions.
  - If the existing structure cannot support the weight of the new partitions, design a strengthening solution.
  - Develop any design documents to define the construction of the partition.
- **Installation of new doors and frames in existing openings, where the dimensions of existing openings are increased:**
  - Determine how reinforcement details around the openings and the structural capacity of the walls are affected.
  - Develop any design documents to define demolition and construction to
- **New wall openings.**
  - Evaluate the impact of new openings on the load capacity of the wall.

- **Installation of non-structural items (equipment, tanks, condensers, heat exchangers, safes, etc).**
  - Obtain the operating weight of all non-structural items
  - Confirm the existing structure can support the weight of the non-structural items.
  - If the existing structure cannot support the equipment, propose alternate locations or develop a design to strengthen the existing structure.
  - Evaluate whether new non-structural elements are being installed in accordance with the 2011 Building Code of OBO requirements for seismic bracing.
- **Installation of new stairs.**
  - Review the shop drawings for the installation of the stairway and verify the materials and construction conform to the 2011 Building Code of OBO
  - Determine whether the design live load of the stairway complies with the 2011 Building Code of OBO and is appropriate for the building occupancy
  - Determine whether the design live load of the stairway is compatible with the live load capacity of the functional areas at the top and bottom of the new stair (balconies, corridors, landings, etc.)
  - Evaluate whether points of support for the stairway have sufficient capacity and are properly detailed (anchorage at the balcony, support at the ground level, etc.)
  - Stairway shop drawings shall be signed and sealed in accordance with the 2011 Building Code of OBO.
  - Where balcony walls are demolished in order to provide stairway access, provide an assessment of the impact to the capacity of the existing structure (balcony walls can act as upturned beams to stiffen and strengthen the balcony floor).
- **New penetrations through walls, floors, and ceilings.**
  - Ensure that new penetrations do not damage the existing reinforcement, and do not have an effect on the structural capacity due to size or location.
- **Repairs to balcony walls.**
- **Proposed occupancy differs from the building's original occupancy. This includes buildings where the pre-project occupancy is unchanged (e.g. a building, originally constructed for a residential occupancy, where the pre-project and proposed occupancy is as an office).**

The work items listed are for all related and concurrent projects. All work items may not be applicable to this specific project.

#### Documentation

An Evaluation Report shall be prepared which presents the evaluation efforts in an organized manner. The evaluation shall include narratives, photographs, calculations, and sketches as needed to clearly communicate the Evaluation efforts.

The Evaluation report shall supplement the Design Notes and Sketches and need not duplicate information in the Design Notes and Sketches. Design Notes and Sketches shall be referenced in the report as needed.

All documentation shall be signed and sealed by the Structural Engineer in accordance with the 2011 Building Code of OBO.

All photographs are property of OBO and shall be provided to OBO on a CD.

The Evaluation report and any Design Notes and Sketches shall be submitted as electronic files, in both the native format (if originally developed electronically) and PDF

**C. MECHANICAL WORK**

1. Provide and install P-traps on all drains except toilet.

**D. ELECTRICAL WORK**

1. Establish a ground from panel to two ground rods (the ground rods must meet local codes) 3 meters long and spaced not less than 1.8M apart). Connect 35mm sq copper wires to each ground rod and the city water pipe to the main circuit breaker Panel. Impedance of ground path for any electrodes may not exceed 25 ohms. Panel Board ampere interrupting capacity (AIC) rating shall be greater than the ampere short circuit available from the utility company at the panel. Provide SPD at or in panel in accordance with OBO specification 16289 Surge Protection Devices.

2. Provide and install a new Main Circuit Breaker Panel with a Circuit Breaker rated 250A, 230/400V (3-Phase 4-wire plus ground) with 100A main circuit breaker with 24 circuit breaker positions (Single Pole Breakers) in each distribution panel. Panel Board ampere interrupting capacity (AIC) rating shall be greater than the ampere short circuit available from the utility company at the panel. Provide SPD at or in panel in accordance with OBO specification 16289 Surge Protection Devices.

3. Connect service from MOE grid to new service panel.

4. Provide and install all circuit breakers with a ground.

5. GFCI Receptacles Shall not be used. Outlets designated GFCI protection shall be fed from a GFCI circuit breaker. One GFCI breaker, rated for 10mA or less ground fault trip. 50Hz, 240V<sub>LG</sub> (line to ground) shall be installed in an enclosure adjacent to the first receptacles in the branch circuit. The breaker will provide ground fault protection for all receptacles in the circuit

6. Location of new circuit breaker panel to be determined by COR. All circuit breakers shall be labeled in English and local language as to what provide panel board schedule and place on inside of panel door.

7. All circuits inside the house shall be in EMT conduit or similar.

8. All outdoor receptacles shall be installed in weatherproof box with cover.

9. Provide and install weatherproof energy-efficient outdoor lights where existing lights are presently installed. Remove and dispose of existing lighting fixtures.

10. Remove and dispose all unused wires, cables and panels. Repair any damage caused by work performed. Clean all work areas.

11. Provide and install new copper wiring throughout the building. The wiring to be THHN/THWN Insulated copper wire, 600 Volts rated equal to NEC #12 (4 mm square). Remove and dispose of all replaced wiring.

12. Conduit runs shall contain no more than four quarter turns (90 degree bends) between pull boxes (NEC).

13. Conduits and Protection: All wiring and cabling shall be installed in metal conduit or raceway.
14. Provide and install an electrical double-gang outlet along all Interior walls 3 meters apart in each room.
15. Provide and install AC outlet on exterior wall on the top of the outdoor unit.
16. Provide and install new fluorescent lights with switches in all interior rooms where existing lights are presently located. Remove and discard existing lights.
17. At the first landing between the two stairways and at the top landing provide and install fluorescent lights with cover. Provide and install a 2-way switch at the bottom floor and the top floor of the stairway.
18. Provide and install one (1) outdoor weatherproof electrical receptacle on the wall at the ground floor entrance. (The receptacles should be supplied power through the wall of the room they are attached to).
19. Provide and install outdoor weatherproof electrical receptacles on the wall of the second floor balcony. (The receptacle should be supplied power through the wall of the room they are attached to.)
20. Provide and install exhaust fans in bathrooms and the work shop Room A105. Exhaust fan to be on separate switch at door next to light switch.
21. Provide and install outdoor lights at the two entrances.
22. Confirm, repair and/or replace ground in all electrical circuits.
23. The contractor will provide a written report/form verifying the each receptacle has been inspected and passes a Ohmmeter AC ground fault loop impedance test along with a ground connection test.
24. All receptacles shall be 2-pole, 3-wire ground type. They must be local type or NEMA type receptacles.
25. Local standard receptacles may be rated 240v, 13A or 16A.

#### **E. Installation of Voice and Data Cable Network**

#### ***TELECOMMUNICATIONS CABLING FOR SUPPORT BUILDINGS***

#### **FY09 Standard Design Requirements**

Bureau of Overseas Buildings Operations  
United States Department of State

#### **1.0 General**

A US embassy compound may contain several buildings to support the diplomatic staff and the needs of its personnel. This criterion is a standard for support buildings such as Compound Access Control, General Service Office annex, Recreation, Utility, and Warehouse.

#### **1.1 Contractor Qualifications**

1.1.1 Designers. The telecommunications firm to design a telecommunications cabling system for US residential units for OBO shall have 15 years experience designing cabling systems in accordance with ANSI/TIA/EIA and/or ISO/IEC standards listed in Paragraph 2.0. The firm shall provide an individual who has a bachelor's degree in engineering/architecture or is a licensed, professional engineer (PE), and is a registered communications distribution designer (RCDD) with five years experience designing cabling systems for commercial and institutional buildings.

1.1.2 Installers/Testers. The installation contractor shall be a firm regularly engaged in installing, terminating, and testing of Category X unshielded twisted pair (UTP) with minimum bandwidth of 250 megahertz, and optical fiber cabling systems for the past five years. Experience shall be specific to installations to commercial building and/or institutional type projects. The contractor shall have field supervisory personnel with experience equivalent to Building Industry Consulting Service International (BICSI) certified technician level. Cabling shall be terminated and tested by field personnel with experience equivalent to BICSI installer level. The contractor's field personnel must be knowledgeable of and have experience with ANSI/TIA/EIA and/or ISO/IEC standards listed in paragraph 2.0 below.

## **2.0 Applicable Codes and Standards**

ANSI/TIA/EIA 568-B.1 Commercial Building Telecommunications Cabling Standards Part 1: General Requirements (and all addenda) ANSI/TIA/EIA 568-B.2 Commercial Building Telecommunications Cabling Standards

Part 2: Balanced Twisted-Pair Cabling Components and all addenda

ANSI/TIA/EIA 568-B.3 Optical Fiber Cabling Components Standard (and all addenda)

ANSI/TIA/EIA 569-B Commercial Building Standard for Telecommunications Pathways and Spaces (and all addenda)

ANSI/TIA/EIA 606-A Administration Standard for Commercial Telecommunications Infrastructure

ANSI/JTC Joint Standard 607-A Commercial Building Grounding (Earthing) and Bonding

ANSI/TIA/EIA 758A Customer Owned Outside Plant Telecommunications Cabling Standard and all addenda

NFPA 70 National Electrical Code (latest edition)

ISO/IEC 11801 Information Technology – Generic Cabling for Customer Premises

BICSI Telecommunications Distribution Methods Manual – Latest Edition

ANSI/NECA/BICSI 568-2001 Installing Commercial Building Telecommunications Cabling.

**3.0 Compound Access Control** – Provide services for telephone and data to the desk top within each CAC. Extend services from the New Office Building, Telecommunications Service Entrance Facility.

**4.0 General Services Office** – Provide services for telephone, data, and television to the GSO building. Each work area in the GSO building shall have an outlet for telephone, DOS unclassified local area network (LAN), and Spare optical fiber cable.

**4.1 Commissary** – Provide services to support Automatic Teller Machines in addition to the standard GSO building services within the Commissary. A television outlet shall be located within the commissary. Coordinate with OBO/IF for location of telecommunications outlets within the commissary.

**5.0 Recreation Buildings** – Provide cabling infrastructure to support telephone, data, television, and audio/visual systems within recreation buildings. Each work area within a recreation building shall have an outlet for telephone, and data. Provide cabling and outlets for satellite and cable television in common areas of the recreation buildings. Provide telephone outlets in common areas to support public telephones. Some

recreation buildings will have dining areas, and group social events. The cabling infrastructure shall be able to support services such as ATM, paging, and audio and video systems.

**6.0 Utility Buildings** – Provide cabling infrastructure to support telephone and data within utility buildings. Telephones and data outlets shall be provided in all work areas. Provide telephone and data connections in generator rooms, switchgear rooms, at fire pumps, and in workshops.

**7.0 Warehouse Buildings** – Provide cabling infrastructure to support both telephone and data within warehouse buildings. Both telephone and data outlets shall be provided in the storage areas of the warehouse to support the inventory software applications.

**8.0 Cabling** – Cabling shall be provided and installed in accordance with OBO-Specifications and Standard Embassy Design Drawings.

8.1 Backbone – Design and Installation of backbone cabling shall be in accordance with OBO-Specs 16750.

8.1.1 CAC – Extend services from the new office building or chancery.

8.1.2 GSO – Extend services from new office building or chancery.

8.1.3 Recreation – Extend services for telephone from the new office building or chancery. Extend services for data and television from the Compound demarcation point or Compound Telecommunications Service Entrance Facility.

8.1.4 Utility – Extend all services from the new office building or chancery.

8.1.5 Warehouse – When the warehouse is part of the GSO building, extend services from the GSO building. When the warehouse is a stand-alone building, extend all services from the new office building or chancery.

8.2 Horizontal Cabling - Design and Installation of horizontal cabling shall be in accordance with OBO-Specs 16760.

8.2.1 CAC – Provide services to support telephone and data in all work areas. Telephone and data cabling shall be copper UTP.

8.2.2 GSO – Provide services to support telephone, data, and television in the work area. Telephone cabling shall be copper UTP. Data cabling shall be copper UTP and optical fiber. Television cabling shall be coaxial. There shall be voice only telecommunications outlets in exercise rooms, kitchens, and break areas. Coax cable shall run from the building entrance facility location to an outlet located in the exercise room and break room.

8.2.3 Recreation – Provide services to support telephone, data, television, and audio/visual. Telephone and Data cabling shall be copper UTP. Television cabling shall be coaxial. Audio/visual cabling shall be in accordance with manufacturer's recommendations.

8.2.4 Utility – Provide services to support telephone and data in the utility buildings. Telephone cabling shall be copper UTP. Data cabling shall be both copper UTP and optical fiber.

8.2.5 Warehouse – Provide services to support telephone and data in the warehouse. Telephone and data cabling shall be copper UTP.

**9.0 Cable Terminations** – Provide cable termination in accordance with OBO-Specs 16742.

**10.0 Communications Faceplates and Connectors** – Provide faceplates and connectors in accordance with OBO-Specs 16761.

**11.0 Cable Administration.** The cable administration scheme shall be developed in accordance with OBO-Specs 16726.

**12.0 Telecommunications Grounding and Bonding.** It shall be compliant with OBO-Specs 16710.

**13.0 Lightning and Surge Protection.** Install primary protectors in each building's entrance facility, as close as possible to the building ground in order to allow ground conductor connection at the same point as the building ground. Primary protectors must be installed immediately adjacent to exposed cable plant point of entry. The grounding conductor must be routed as straight as possible to the building ground. Refer to OBO-Specs 16710 and 16740 for more information for grounding and communications entrance protection.

**14.0 Testing.** The designer of the cable distribution system shall develop testing standards for the cable system. The test standards must meet or exceed OBO standards included and industry standards referenced in the OBO-Specs (16750 and 16760) and this document.

14.1 The contractor shall provide a fully functional telecommunications infrastructure that includes coax, copper, and optical fiber horizontal and backbone cabling. The installation contractor shall perform pre-qualification testing during installation to ensure that the cabling system will pass the acceptance testing. The test data shall use the software format identified in OBO-ICS IBC appendix L101. The test package shall certify a 100 percent pass result of all cabling.

### **Warranty:**

The Installation Contractor shall support the above system for a period of two years from the date of acceptance by American Embassy Baghdad/RRT Erbil. The response time to troubleshoot and begin repairs of reported failures will be four (4) hours. If the failure is a result of installation and/or performance of structured cabling, the failure will be repaired within 24 hours from the time of the report. If the failure is not installation and/or performance of structured cabling, the Contractor shall contact the Responsible Representative of the RRT to confirm and get approval to proceed. The Contractor shall make the effort to coordinate and get approval to proceed prior to any visit to the Ankawa compound.

### **The work includes.**

1. Telephone: The RRT will provide a telephone backboard at each location.
2. Horizontal cabling: Contractor will provide and install four CAT-6 UTP cable from the IDF box to each room or location in raceway as home runs noted on attachment A without any splices.
3. Contractor will provide bix or 110 block on the backboard for cross connects with wiring coming into the building.
4. The telephone wiring cross connects will be made by the government.

5. Contractor will provide and design all pathways to accommodate additional and diverse telecommunications requirements from the backboard to each outlet.
6. Work area Cat 6 cables must be terminated on industry standard eight pin modular Cat 6, unkeyed, RJ-45 jacks pinned to ANSI/EIA 568A standard.
7. Contractor shall provide and terminate at each drop three RJ-45 jacks, and Cat 6 UTP cable: one for telephone (blue), one for data (yellow) and one spare (green)
8. The telephone cable will terminate on the 110 or bix block on the backboard.
9. Contactor shall label all cabling and receptacle boxes as set forth in EIA standard 606 and do end to end testing (as noted in #6 above).
10. Data: The contractor will provide and install next to the backboard a standard black 19 inch wide (10-12 “U” tall) wall mounted telecommunications rack (with exhaust fan and locking front door) to house a rack mounted UPS, two 24/48 port patch panels and a Cisco switch.
11. The UPS, patch panels and Cisco switch will be GFE.
12. Contractor will provide and install fiber optic jumper cables between the FO distribution panel and the switch as outlined in the building drawing.
13. Tests must ensure that the measure link loss for each strand does not exceed the “worst case” allowable loss defined as the sum of the connector loss (based on the number of mated connector pairs at the EIA/TIA-568-B maximum allowable loss of 0.75 dB per mater pair).
14. At completion of the project, contractor will ensure that all holes they made in the building are patched and the area painted to match to original colors, excess materials are removed, and the work area returned to its original state.

#### **E. Closeout**

1. The contractor is responsible to clean up daily after working hours.
2. At completion of work, the Contractor shall clean any impacted areas to a condition equal to original condition
3. All shipping materials and construction debris are to be disposed of in a legal manner outside of the Compound

**ATTACHMENT #7****Defense Base Act Insurance Rates & Contact Information****Contract Information**

Contract number: S-AQMMA-08-C-0204  
 Contractor: Continental Insurance Company

**Contact Information**

Agent: Rutherford International  
 5500 Cherokee Avenue, Suite 300  
 Alexandria, VA 22312

Primary Contact: Delia Shontere  
 Phone: (800) 274-0268 or (703) 813-6507  
 FAX: (703)354-0370  
 E-mail: [delia.shontere@rutherford.com](mailto:delia.shontere@rutherford.com)  
 Secondary Contact: Sara Payne  
 Phone: (703) 813-6503  
 E-mail: [sara.payne@rutherford.com](mailto:sara.payne@rutherford.com)

Rates July 22, 2011 through July 21, 2012:

Description	Rate
Services	\$4.00 per \$100 of employee compensation
Construction	\$5.50 per \$100 of employee compensation
Security Contractor/Guards without Aviation Exposure within Global War on Terrorism designated areas (currently designated areas are Iraq and Afghanistan)	\$10.50 per \$100 of employee compensation
Aviation Related Services with Aviation Exposure within Global War on Terrorism designated areas (currently designated areas are Iraq and Afghanistan)	\$20.00 per \$100 of employee compensation

For the purposes of this contract, employee remuneration is defined as salary plus post differential, but excludes per diem, housing allowance, travel expenses, temporary quarters allowance, education allowance and other miscellaneous post allowances.

Please note if a contractor is self-insured they are not required to utilize this contract. The following link provides a list of contractors approved by the Department of Labor as authorized self-insured employers to provide DBA insurance: <http://www.dol.gov/esa/owcp/dlhwc/lscarrrier.htm#authorized%20self-insured%20employers>. Contractors not on this list are not self-insured and are required to use the DoS DBA contract, except for the INL Air Wing contract.

**DEFINITION OF LABOR CATEGORIES****SERVICE:**

\$4.00/\$100 “White collar” workers such as IT Consultants, Engineers, Administrative-type Office workers, Translators, Instructors, Restaurant type services. Security Consultants could be included as long as they are just assessing risk and not providing armed protection.

**CONSTRUCTION:**

\$5.50/\$100 “Blue collar” workers providing Construction services such as Laundry Services, Janitorial Services, Installation of Cable, Security Systems, Testing/Maintaining of Equipment, Carpentry, Electrical, Plumbing, HVAC, Elevator installation and maintenance, Concrete, Asphalt, Day Laborers, Operation, Maintenance and Repair of Heavy/Light Equipment, Mechanics, Drivers, Skilled/Unskilled Manual Labor.

**SECURITY:**

\$10.50/\$100 Personal Security Detail (PSD) and Static or Convoy Guarding property of Personnel (Iraq/Afghanistan)

**AVIATION:**

\$20.00/\$100 Pilot and Crew of any aircraft excluding ground personnel who provide maintenance or services but stay on the ground

**The labor category for this acquisition is CONSTRUCTION.**