

<b>SOLICITATION, OFFER, AND AWARD</b> (Construction, Alteration, or Repair)		1. SOLICITATION NO. <b>S-IZ100-12-R-0033</b>	2. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED April 29, 2012	PAGE OF PAGES 1 of
<b>IMPORTANT - The "offer" section on the reverse must be fully completed by offeror</b>					
4. CONTRACT NO.		5. REQUISITION/PURCHASE REQUEST NO. PR1708889		6. PROJECT NO.	
7. ISSUED BY <b>U.S. Embassy Al Kindi Street International Zone Baghdad, Iraq</b>		CODE	8. ADDRESS OFFER TO <a href="mailto:BaghdadGSOProcBid@state.gov">BaghdadGSOProcBid@state.gov</a>		
9. FOR INFORMATION CALL:		A. NAME Ms. Desiree Tupper	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) <a href="mailto:BaghdadGSOProcurement@state.gov">BaghdadGSOProcurement@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):

**CIVIL WORK FOR THE INSTALLATION OF GOVERNMENT FURNISHED GATE VALVES ON THE EMBASSY COMPOUND WATER MAINS**

SF-1442, Solicitation, Offer and Award

- A. Price
- B. Scope of Work
- C. Packaging and Marking
- D. Inspection and Acceptance
- E. Deliveries/Performance
- F. Administrative Data
- G. Special Requirements
- H. Clauses
- I. List of Attachments
- J. Quotation Information
- K. Evaluation Criteria
- L. Representations, Certifications, and other Statements of Offerors or Quoters

11. The Contractor shall begin performance within 5 calendar days and complete it within 80 calendar days after receiving  award  notice to proceed. This performance period is  mandatory,  negotiable. (See Section E.)

12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? (If "YES," indicate within how many calendar days after award in Item 12B.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12B. CALENDAR DAYS 10
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## 13. ADDITIONAL SOLICITATION REQUIREMENTS:

Sealed offers in original and 1 copies to perform the work required are due at the place specified in Item 8 by **12:00 noon on June 3, 2012** local time. 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.

An offer guarantee  is  is not required.

All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by referenced. Offers providing less than 90 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

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 60 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



USD

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)	B. SIGNATURE	C. OFFER DATE

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

21. ITEMS ACCEPTED:

22. AMOUNT	23. ACCOUNTING AND APPROPRIATION DATA	
24. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)	ITEM Section F	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)( )
26. ADMINISTERED BY	27. PAYMENT WILL BE MADE BY  <b>U.S. Embassy Baghdad</b>	

**CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE**

28. NEGOTIATED AGREEMENT (Contractor is required to sign representations, certifications, and specifications are incorporated by reference in or attached to this contract.)
29. AWARD (Contractor is not required to sign this document.) Your offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.

30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN (Type or print)

31.A. NAME OF CONTRACTING OFFICER (TYPE OR PRINT)

30B. SIGNATURE

30C. DATE

31B. UNITED STATES OF AMERICA  
BY

31C. AWARD DATE

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### Attachments

- Attachment 1: Sample Bank Letter of Guarantee
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**REQUEST FOR QUOTATIONS - CONSTRUCTION****A. PRICE**

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

\_\_\_\_\_ Total Price

**B. SCOPE OF WORK**

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

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

**C. PACKAGING AND MARKING**

Mark materials delivered to the site as follows:

**American Embassy  
Al Kindi Street  
International Zone  
Bagdad, 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**

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

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

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

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

## D.2 *Final Completion and Acceptance*

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

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## 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) five 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 **(80) eighty calendar days** after the date the Contractor receives the notice to proceed.

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)

- (a) 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 **\$732.00** 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 "10 calendar days after receipt of an executed contract".
- (b) These schedules shall include the time by which shop drawings, product data, samples and other submittals required by the contract will be submitted for approval.
- (c) The Contractor shall revise such schedules (1) to account for the actual progress of the work, (2) to reflect approved adjustments in the performance schedule, and (3) as required by 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 on regular workdays between 07:00 and 17:00. 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 no later than 5 days after contract award at to discuss the schedule, submittals, notice to proceed, mobilization and other important issues that affect construction progress. See FAR 52.236-26, Preconstruction Conference.

**E.9 Deliverables**

The following items shall be delivered under this contract:

<b>Description</b>	<b>Quantity</b>	<b>Delivery Date</b>	<b>Deliver To:</b>
Section E. Preconstruction Conference	1	5 days after award	COR
Section E. Construction Schedule	1	5 days after NTP	COR
Section F. Payment Request	1	Upon completion of work	COR
Section G. Securities/Insurance	1	15 days after award	CO
Section G. Personnel Biographies	1	5 days after award	COR
Section D. Request for Final Acceptance	1	Upon completion of work	COR
Section D. Request for Substantial Completion	1	5 days before inspection	COR
Section E. Notice of Delay	1	Within 10 days after event	CO
Section E. Additional Hours	1	No later than 24 hours in advance of need	COR
Section G. Differing Site Condition	1	Within 10 days of occurrence	CO
Punch List	1	5 days after Substantial Completion	COR
Section G. As-Built Drawings	1	Before final acceptance	COR
Project Notes/Sketches	1	10 days after NTP	COR
Facilities Review	1	20 days after NTP	COR
Project Acceptance	1	75 days after NTP	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 the Facilities Manager.

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.

The Contractor shall address invoices to:

**U.S Embassy Baghdad  
Financial Management Officer  
International Zone  
Baghdad, Iraq**

Alternately, invoices may be submitted in Acrobat PDF format only, to this email address:

[BaghdadVouchers@state.gov](mailto:BaghdadVouchers@state.gov)

#### SYNCHRONIZED PREDEPLOYMENT AND OPERATIONAL TRACKER (SPOT)

In accordance with paragraph (g) of contract clause 52.225-19, Contractor Personnel in a Designated Operational Area or Supporting a Diplomatic or Consular Mission Outside the United States, the contractor shall use Synchronized Predeployment and Operational Tracker (SPOT). Contractor shall enter before deployment, or if already in the designated operational area, enter upon becoming an employee under the contract, and maintain current data, including departure data, for all Contractor personnel that are authorized to support a diplomatic or consular mission outside the United States. Information on how to register in SPOT is available at <http://www.dod.mil/bta/products/spot.html>

## 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 20% of the contract price. A Bank Guarantee letter is to be provided.
- G.1.1 The Contractor shall provide the information required by the paragraph above within ten (15) 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:**

<b>Per Occurrence</b>	<b>\$10,000.00</b>
<b>Cumulative</b>	<b>\$150,000.00</b>
  2. **Property Damage on or off the site in US Dollars:**

<b>Per Occurrence</b>	<b>\$10,000.00</b>
<b>Cumulative</b>	<b>\$150,000.00</b>
- 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 an 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:
- (1) a current marked set of Contract drawings and specifications indicating all interpretations and clarification, contract modifications, change orders, or any other departure from the contract requirements approved by the Contracting Officer; and,
  - (2) a complete set of record shop drawings, product data, samples and other submittals as approved by the Contracting Officer.
- G.3.1.2 "As-Built" Documents: After final completion of the work, but before final acceptance thereof, the Contractor shall provide:
- (1) a complete set of "as-built" drawings, based upon the record set of drawings, marked to show the details of construction as actually accomplished; and,
  - (2) record shop drawings and other submittals, in the number and form as required by the specifications.
- 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 **(5) five 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 approximately 30 days to perform. For each individual the list shall include:
- (a) **Full Name**
  - (b) **Place and Date of Birth**
  - (c) **Current Address**
  - (d) **Identification number (*Jinsya or passport*)**
  - (e) **Vehicle make, model, color and license plate number**

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

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

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

#### G.7.0 Special Warranties

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

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

#### G.8.0 Equitable Adjustments

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

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

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

## G.9.0 Zoning Approvals and Permits

The Government shall be responsible for:

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

## 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>
52.204-9	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) (FEB 2012)
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)
- 52.232-34 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)

#### DOSAR 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.

#### 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.

#### 652.228-71 WORKER'S COMPENSATION INSURANCE (DEFENSE BASE ACT) - SERVICES (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)

## I. LIST OF ATTACHMENTS

Attachment 1	Sample Bank Letter of Guaranty	1
Attachment 2	Breakdown of Price by Divisions of Specifications	1
Attachment 3	Drawings	5
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**ATTACHMENT #1**  
**SAMPLE LETTER OF BANK GUARANTY**

Place /     /  
Date /     /

Contracting Officer  
U.S. Embassy, Baghdad, 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 another 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:

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

\_\_\_\_\_

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

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

Corporate Seal:

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

**ATTACHMENT #2**

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

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

1. General Requirements

2. Site Work

3. Concrete

4. Masonry

5. Metals

6. Wood and Plastic

7. Thermal and Moisture

8. Doors and Windows

9. Finishes

10. Specialties

11. Equipment

12. Furnishings

13. Special Construction

14. Conveying Systems

15. Mechanical

16. Electrical

**TOTAL:**

Allowance Items:

**PROPOSAL PRICE TOTAL:**

Alternates (list separately do not total)

**Offeror:**

**Date**

PRICE BREAKDOWN BY DIVISION OF SPECIFICATION ITEMS

**ATTACHMENT #3**  
Drawings

1. A1 – Domestic Water Additional Valves
2. A2 – Excavation Detail
3. A3 – Pipe Support prior to backfill
4. A4 - Backfill and valve box typical installation details
5. A5 - Joint Restraints

*[Will be provided at site visit]*

**ATTACHMENT #4**  
**STATEMENT of WORK**



**STATEMENT of WORK**

General Construction Services for

**CIVIL WORK RELATED TO THE INSTALLATION OF GOVERNMENT  
FURNISHED "HYDRA-STOP INSTA-VALVE" GATE VALVES ON THE  
COMPOUND WATER MAINS**

**U.S. EMBASSY BAGHDAD, IRAQ**

*March 22, 2012*

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- 2.0 General Conditions
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- 5.0 Statement of Work
- 6.0 Project Schedule
- 7.0 Deliverables
- 8.0 Responsibilities & Project Management
- 9.0 Attachments:
  - DRAWINGS A1 THROUGH A5
  - GFE MEGA LUG JOINT RESTRAINT SPECIFICATIONS
  - GFE INSERTA-VALVE SPECIFICATIONS
  - OBO NEC SPECIFICATIONS

### **1.0 PROJECT DESCRIPTION**

#### **Project Synopsis**

The aim of this Statement of Work (SOW) is for the Contractor to supply materials, labor, tools and equipment (except by the Government Furnished Equipment) necessary to the successful installation of additional gate valves on the existing water mains of the NEC, Baghdad, Iraq.

#### **BACKGROUND**

Currently, the number of existing valves on the water mains is not enough to enable disruption of the water service when only one area of the NEC need to have its water supply interrupted for maintenance. With the additional valves installed, Facility Management will be able to interrupt the water supply to small areas within the NEC, without affecting others.

#### **PROJECT BRIEF**

This project involves the excavation in all the areas where insertion type valves will be installed by specialized plumbers; the execution of all the civil work necessary for this installation, to include supplying all material needed for this task; the excavation, labor, tools and equipment required to install additional joint restraints on the existing water mains valves and all other joint restraints required as per the project drawings, the supply

and installation of valve boxes for all valves being installed, as per the project drawings, as well as all labor, material, tools and equipment necessary for back filling and restore the affected areas to their original condition.

The pipe joint restraints, the insertion valves, the special equipment required for the installation of the valves and the specialized plumbers who will install the valves will be furnished by the Embassy and shall be referred to from now on as Government Furnished Equipment (GFE).

## 2.0 GENERAL CONDITIONS

1. **Fixed-Price Proposal.** The Contractor shall provide one fixed-priced Proposal for the complete Project that includes every aspect of the Work.
2. **Specifications.** The Work shall be governed by the United States Department of State Overseas Buildings Operations New Embassy Compound, Baghdad, Iraq Master Specifications. International Codes, which includes the International Building Code, International Mechanical Code, International Plumbing Code, and National Electric Code, also are applicable. Should there be a discrepancy between the NEC Specifications and the applicable Building Code, the more stringent of the two shall govern.

*The Contractor is responsible for compliance with all Building Codes; Work not in compliance with the Codes shall be deemed to be unacceptable.*

3. **Execution.** The Work shall be executed in a diligent and workmanlike manner in accordance with the negotiated fixed-price, this Scope of Work, the Project Schedule, International Building Codes, and the laws of the City of Baghdad where applicable.
4. **Work Hours.** Unless otherwise agreed with Facilities Management, the Work shall be executed during normal Embassy work hours. Night, weekend or holiday work shall not be permitted except as arranged in advance with Facilities Management. Embassy holiday schedule is available from Facilities Management.
5. **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.
6. **Workforce.** The contractor shall provide all supervision, skilled and unskilled labor needed to perform the work.
7. The Contractor shall provide all skilled and unskilled labor needed to perform the Work.
  - a. In order to comply with the Embassy's minimum escort ratio requirement of one (1) escort to four (4) workers, the Contractor will have on his staff an employee(s) with an RSO vetted "Escort" Badge.
  - b. If the Contractor has no staff with an Escort Badge the Contractor will have 10 days from award to submit the required paperwork. The RSO vetting process could take up to 30 days and must be shown on the Contractors Project Schedule.

- c. Information for all non-badged staff must be submitted to the COR for processing to allow the workers access to the NEC. This list must be resubmitted every 30 days or when modified.
  - d. If escorts are needed prior to being vetted by the RSO the Contractor may submit a request to the COR for government furnished escorts. The COR will schedule temporary escorts ONLY if they are available and the request must be submitted at least 48 hours in advance of the preferred date.
8. **Subcontractors.** Contractor shall be responsible for the conduct and workmanship of Subcontractors engaged in the Project, and for Subcontractors compliance with the terms of this Statement of Work. The Contractor is responsible for the behavior and workmanship of Subcontractors while on Embassy property.
  9. **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 Embassy.
  10. **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.
  11. **Construction Cost Breakdown.** The Government provided "Construction Cost Breakdown" is for bid comparison only, and the contractor is responsible to field measure and to quantify the required materials and tasks as to complete the job.
  12. **Submittals.** The contractor is responsible to submit shop drawings prior to fabrication and release of any materials for the FAC Engineer's review and approval. The Engineer's review, however, does not relieve of the contractor's responsibility for the engineering work as to provide a complete working system.
  13. **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.
  14. **Close-out.** Prior to final acceptance, the contractor is to submit to the Engineer marked up drawings (As-Builts) reflecting the work as constructed. The drawings shall be digitally submitted on a CD-ROM in both AutoCAD and PDF format.
  15. **Housekeeping.** The contractor is responsible to clean up daily after working hours.

### 3.0 BID FORM

**Construction Cost Breakdown - To execute and supply material for all civil work related to the installation of water valves on the main distribution lines of the NEC, at the U.S. Embassy, Baghdad, Iraq**

No	Descriptions	Unit	Qty	Unit Price \$	Total Price \$
<b>1</b>	<b>Administration</b>				
A	Mobilization / Demobilization	LS	1		
B	Submittals – product data & shop drawings	LS	1		
	<b>Administration</b>			<b>Sub-Total</b>	
<b>2</b>	<b>Construction Work</b>				
A	Excavation & backfill for five 8", two 4" and ten 3" gate valves	LS	1		
B	Megalug (joint restraint) installation	LS	1		
C	Assistant of GFE gate valve	LS	1		
D	Valve box and cover	LS	1		
E	Close-out	LS	1		
	<b>Construction</b>			<b>Sub-Total</b>	
<b>3</b>	<b>DBA Insurance</b>				
A	Contractor shall cover each of its workers at the site with DBA Workers' Compensation coverage, and require its subcontractors to do the same. Contractor must furnish certificate evidencing this coverage to Engineer prior to starting work.	LS	1		
	<b>DBA Insurance</b>			<b>Sub-Total</b>	
	<b>Items 1 thru 3</b>			<b>Sub-Total</b>	
				G & A	
				Sub-Total	
				Profit	
<b>4</b>	<b>Basic Bid -</b>			<b>Contract Cost</b>	
A	<b>Bid -</b>			<b>Contract Cost</b>	

### 4.0 Assumptions and Criteria

1. The Government provided "Bill of Materials" is an estimate only. The contractor is responsible to field measure and to quantify the required materials to complete the job.
2. It is a responsibility of the contractor to locate all underground utilities prior to excavation. All excavation will be done above and around the pressurized main water lines of the NEC for the installation of the valves and the pipe joint restraints. While the initial excavation may be carefully executed with machines, only hand excavation shall be performed around any utility line that may found on site. Utilities discovered in this

area that may interfere with the work may need to be rerouted, as per directions given by the Contracting Officer's Representative (COR). This shall be done as part of this project and any outages required shall be coordinated through the COR.

3. The contractor is responsible for repairing all damaged landscape, concrete pavement, curb & gutter & sidewalk damaged during construction.
4. Include redirecting all underground utilities if necessary.
5. With the exception of: i) the Government Furnished Hydra-Stop Inserta-Valves, the specific installation equipment and trained plumbers; ii) the Megalug joint restraints; the contractor is responsible for all tools and equipment necessary to complete the Statement of Work (SOW).

The contractor is responsible to clean up daily after working hours.

## 5.0 Statement of Work:

### **CIVIL WORK RELATED TO THE INSTALLATION OF GOVERNMENT FURNISHED "HYDRA-STOP INSTA-VALVE" GATE VALVES ON THE COMPOUND DOMESTIC WATER MAINS**

The project consists of the basic bid as described below:

**I – Pipe Joint Restraints.** Before installing the *Inserta-Valves*, the Contractor shall install all joint restraint harnesses (GFE *Megalug 1100HD*) where needed, as per below:

1. Install joint restraints on all exposed pipe joints in the existing valves' vaults, following the manufacturer's instructions.
  - The contractor is responsible for providing labor, tools and equipment required to install the GFE pipe joint restraint harness in every exposed pipe joint inside the existing vaults where the valves are located. QA/QC for this task will be performed by the Embassy contractor who has the O&M contract at the time of execution of this task.
2. Installation of joint restraints on all pipe joints adjacent to the proposed point of installation of the Inserta-valves. The GFE pipe restraints (Megalug 1100HD) shall be installed by the contractor on all pipe joints within 45' from the 8" valves, as per drawings A1 and A5.

The pipes are expected to be found between 3' and 5' below grade. Contractor shall ensure the excavation and restoration of the site happens in a smooth way, as per the General Conditions of this Statement of Work.

- a) The contractor shall survey the sites and evaluate the proposed locations where the Inserta-valves are to be installed, taking in consideration that, in addition to the excavation needed for the valves insertion, other excavations are required to install the pipe joint restraints as per drawing A5.
- b) The contractor is responsible for providing labor, tools and equipment to install the GFE pipe restraints (Megalug 1100HD) on all pipe joints within 45' from the location where the 8" valves will be installed location, as per drawings A1 and A5. QA/QC for this task

will be performed by the Embassy contractor who has the O&M contract at the time of execution of this task.

- c) After conclusion of the installation, contractor shall apply a coat of tar on the newly installed harnesses, bolts and nuts.
- d) All underground pipe joint restraints should be wrapped with 8mil polyethylene prior to back fill the excavated area

## **II - Installation of the GFE gate valves on the compound domestic water mains.**

1. The 8", 4" and 3" Ductile Iron pipes in which the valves are to be installed are expected to be found between 3' and 5' below grade. The contractor shall ensure the excavation and restoration of the site happens in a smooth way, as per the General Conditions of this Statement of Work.
2. Prior to this task all pipe joint restraints listed on section 5.0, item I shall be completely installed.
3. The contractor shall survey the sites and evaluate the proposed locations where the Inserta-valves are to be installed, as per drawing A1 and have on hands all material needed to execute the job, from start to finish, before excavation begins.
4. Prepare the sites for the valve installation job:
  - a. A 5' x 6' excavation shall be executed at the location where the valve is going to be installed, as per drawing A2.
  - b. The point of installation shall be preferably in the middle of full length's pipe. If this is not possible, a minimum clearance of 2' is required from any bell, hub, housing, structure, joint, etc.
  - c. Contractor shall be responsible for any dewatering, sheeting and barricades if needed
  - d. Contractor shall pour and compact a 6" layer of foundation material at the bottom of the trench, leaving a 12" x 12", 36" deep drainage spot filled with gravel, in the corner away from where the support blocks will be built.
  - e. Contractor shall build two concrete blocks (3000PSI minimum strength) to support the Ductile Iron pipe, as per the drawing A3.
  - f. The pipe shall be cleaned all around where the Insta-Valve sleeve will be mounted. Sleeve must have full and direct contact with the bare pipe (no paint, insulation or poly film).
5. Assist with the valve installation job  
Contractor shall assist the specialized plumbers who will insert the valves, providing trades helpers as needed.
6. Install valve box, back fill and restore site to the same condition it was prior to work.
  - a. Prior to back filling, the Insta-Valves shall be coated with tar and wrapped with 8mil polyethylene all around it, only leaving the square nut exposed.

- b. Contractor shall supply and install one telescoping valve box for each valve, with cast iron covers inserted on concrete collars. Valve boxes shall be mounted as per the typical installation detail shown on drawing A4.
  - c. Back fill shall be done in accordance to the drawings and notes shown on drawing A4
7. After conclusion of the back fill and valve box collar and cast iron cover installation as per drawing A4, the contractor shall clean the area affected by the construction and remove all signals, barricades and other safety devices installed prior to beginning of the excavation.

### **III – As Built**

Prior to final acceptance, the contractor is to submit to the COR the marked up drawings (As-Built) reflecting the work as constructed. Three hard copies shall be delivered. The drawings shall also be digitally submitted on a CD-ROM in both AutoCAD and PDF format.

## **6.0 PROJECT SCHEDULE - RESERVED**

### **7.0 DELIVERABLES – SEE SECTION E**

### **Commencement, Prosecution, and Completion of Work – See Section**

## **8.0 RESPONSIBILITIES AND PROJECT MANAGEMENT**

1. **COR.** A Contracting Officers Representative (COR) will be assigned to ensure quality assurance goals are met. The Contractor shall provide the COR access to the site at all times.
2. **Point of Contact.** The COR shall be the main point of contact for this Project. The Contractor shall report to the COR on (a) status of the Project, (b) changes in Schedule, (c) accidents and safety issues, (d) disruptions to elevator or utility services; and all other important information pertaining to the Project
3. **English Speaking Representative.** The Contractor shall provide an English-speaking representative on-site during all working hours with the authority to make all decisions on behalf of the Contractor and subcontractors.
4. **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.
5. **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.
6. **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.

7. **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.
8. **Progress Payments.** If the contract awardee expects to receive more than one (1) progress payment, the Contractor must submit a broken out Cost Proposal with a Schedule of Values in order to properly calculate the percentage of contract completion.

## ATTACHMENT #5

## DEFENSE BASE INSURANCE INFORMATION

Contract number: S-AQMMA-08-C-0204

Contractor: Continental Insurance Co.  
333 S. Wabash Ave  
Chicago, IL 60604-4107

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

Primary Contact: Delia Shontere, Phone (703) 813-6507  
FAX: (703) 354-0370, Email: [delia.shontere@rutherford.com](mailto:delia.shontere@rutherford.com)

Secondary Contact Sara Payne, Phone (703) 813-6503, same FAX as above  
E-mail: [sara.payne@rutherford.com](mailto:sara.payne@rutherford.com)

**Rates July 22, 2011 through July 21, 2012:**

**Please note the rates referenced below are subject change due to an ongoing contract audit. If the audit outcome determines different rates are applicable, A/OPE will issue an additional PIB with the rates and guidance.**

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

**ATTACHMENT # 6****OBO NEC Specifications****SECTION 02300 - EARTHWORK****PART 1 - GENERAL****1.1 SUMMARY**

- A. This Section includes the following:
  - 1. Preparing subgrades for slabs-on-grade, walks, pavements, lawns and grasses and exterior plants.
  - 2. Excavating and backfilling for buildings and structures.
  - 3. Temporary excavation support and protection systems.
  - 4. Dewatering
  - 5. Drainage course for slabs-on-grade.
  - 6. Subbase course for concrete walks and pavements.
  - 7. Subsurface drainage backfill for walls and trenches.
  - 8. Excavating and backfilling for utility trenches.
  - 9. Excavating and backfilling trenches for buried mechanical and electrical utilities and pits for buried utility structures.

**1.2 SUBMITTALS****1.3 QUALITY ASSURANCE**

- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Construction Execution and Coordination."

**1.4 PROJECT CONDITIONS**

- A. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted in writing by COR and then only after arranging to provide temporary utility services according to requirements indicated.
- B. Project-Site Information: A geotechnical report has been prepared for this Project and is available for information only. The opinions expressed in this report are those of geotechnical engineer and represent interpretations of subsoil conditions, tests, and results of analyses conducted by geotechnical engineer. Owner will not be responsible for interpretations or conclusions drawn from this data.
  - 1. Make additional test borings and conduct other exploratory operations necessary for dewatering.
  - 2. The geotechnical report is included elsewhere in the Project Manual.
- C. Survey adjacent structures and improvements, employing a qualified professional engineer or land surveyor, establishing exact elevations at fixed points to act as benchmarks. Clearly identify benchmarks and record existing elevations.

1. During dewatering, regularly resurvey benchmarks, maintaining an accurate log of surveyed elevations for comparison with original elevations. Promptly notify COR if changes in elevations occur or if cracks, sags, or other damage is evident in adjacent construction.
- 1.5
- 1.6 RELATED DOCUMENTS
- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Statement of Work apply to this Section.
- 1.7 PROJECT CONDITIONS
- A. Existing Utilities: Do not interrupt utilities of any kind unless permitted in writing by the COR and then only after arranging to provide temporary utility services.
    1. Notify COR not less than two days in advance of proposed utility interruptions.
    2. Do not proceed with utility interruptions without COR's written permission.
    3. Contact utility-locator service for area where Project is located before excavating.
  - B. Demolish and completely remove from site existing underground utilities no longer activated in conflict with new construction. Coordinate with the COR to confirm prior to shutting off services.
  - C. If utilities are interrupted at any time, contact the COR, and make immediate arrangements to repair the utilities at no additional cost to the Contract.
  - D. Project-Site Information: A geotechnical report is available for reference.
  - E. Temporary support of excavation
    1. Furnish, install, monitor, and maintain excavation support and protection system capable of supporting excavation sidewalls and of resisting soil and hydrostatic pressure and superimposed and construction loads where applicable.
    2. For excavations on the NEC less than 3 meters deep, the default shoring construction may be used. A detail of the shoring is attached, Appendix A. For all other excavations, the shoring must be designed by a licensed professional engineer.
    3. Prevent surface water from entering excavations by grading, dikes, or other means.
    4. Install excavation support and protection systems without damaging existing buildings, pavements, and other improvements

- adjacent to excavation. If necessary, underpin the existing buildings, pavements, or utilities.
- F. Survey adjacent structures and improvements, employing a qualified professional engineer or land surveyor; establish exact elevations at fixed points to act as benchmarks. Clearly identify benchmarks and record existing elevations.
1. During installation of excavation support and protection systems, regularly resurvey benchmarks, maintaining an accurate log of surveyed elevations and positions for comparison with original elevations and positions. Promptly notify COR if changes in elevations or positions occur or if cracks, sags, or other damage is evident in adjacent construction.

### 1.8 DEWATERING REQUIREMENTS

- A. Design, furnish, install, test, operate, monitor, and maintain dewatering system of sufficient scope, size, and capacity to control ground-water flow into excavations and permit construction to proceed on dry, stable subgrades.
1. Implement dewatering immediately upon excavation, maintain continuously while excavation is open.
  2. Maintain dewatering operations to ensure erosion control, stability of excavations and constructed slopes, that excavation does not flood, and that damage to subgrades and permanent structures is prevented.
  3. Prevent surface water from entering excavations by grading, dikes, or other means.
  4. Accomplish dewatering without damaging existing buildings adjacent to excavation.
  5. Remove dewatering system if no longer needed.

### 1.9 DEFINITIONS

- A. Backfill: Soil material or controlled low-strength material used to fill an excavation.
1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
  2. Final Backfill: Backfill placed over initial backfill to fill a trench.
- B. Base Course: Course placed between the subbase course and hot-mix asphalt paving.
- C. Bedding Course: Course placed over the excavated subgrade in a trench before laying pipe.
- D. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
- E. Drainage Course: Course supporting the slab-on-grade that also minimizes upward capillary flow of pore water.

- F. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
    - 1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by COR. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
    - 2. Bulk Excavation: Excavation more than 3 m (10 feet) in width and more than 9 m (30 feet) in length.
    - 3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by COR. Unauthorized excavation, as well as remedial work directed by COR, shall be without additional compensation.
  - G. Fill: Soil materials used to raise existing grades.
  - H. Rock: Rock material in beds, ledges, unstratified masses, conglomerate deposits, and boulders of rock material that exceed 0.76 cu. m (1 cu. yd.) for bulk excavation or 0.57 cu. m (3/4 cu. yd.) for footing, trench, and pit excavation that cannot be removed by rock excavating equipment equivalent to the following in size and performance ratings, without systematic drilling, ram hammering, ripping, or blasting, when permitted.
  - I. Shoring: Protective structure capable of supporting excavation in the event of a soil collapse. Shoring must be capable of supporting excavation sidewalls and of resisting soil and hydrostatic pressure and superimposed and construction loads as they may reasonable occur during the execution of this Contract work.
  - J. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
  - K. Subbase Course: Course placed between the subgrade and base course for hot-mix asphalt pavement, or course placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.
  - L. Subgrade: Surface or elevation remaining after completing excavation, or top surface of a fill or backfill immediately below subbase, drainage fill, or topsoil materials.
  - M. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.
- 1.10 SUBMITTALS
- A. Product Data: For the following:
    - 1. Each type of plastic warning tape.
    - 2. Geotextile.

- B. Material Test Reports: From a qualified testing agency indicating and interpreting test results for compliance of the following with requirements indicated:
  - 1. Laboratory compaction curve according to ASTM D 1557 for each on-site and borrow soil material proposed for fill and backfill.
  - 2. Mechanical analysis, according to ASTM D 422, for each on-site and borrow soil material proposed for fill and backfill.
  - 3. Sulfate and chloride ions, according to ASTM D 516 and 512 respectively, for each on-site borrow soil material proposed for fill and backfill
- C. Shop Drawings: In addition to shop drawings required under other provisions of this contract, provide calculations and details prepared by a professional engineer for shoring.
  - 1. Include Shop Drawings signed by a qualified professional engineer responsible for their preparation.
  - 2. For excavations on the NEC less than 3 meters deep, in lieu of a shoring design, the contractor may use the standard detail attached in Appendix A.
  - 3. No excavation is permitted without approved shoring in place. Notify COR upon completion of temporary support for written approval to proceed.
- D. Shop Drawings for dewatering system.
  - 1. Show arrangement, locations, and details of wells and well points; locations of headers and discharge lines; and means of discharge and disposal of water.
    - a. Include a written report outlining control procedures to be adopted if dewatering problems arise.

## 1.11 QUALITY ASSURANCE

- A. Preexcavation Conference: Conduct conference at Project site prior to any excavation.

## PART 2 - PRODUCTS

### 2.1 SOIL MATERIALS

- A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.
- B. Satisfactory Soils: ASTM D 2487 Soil Classification Groups GW, GP, GM, SW, SP, and SM, or a combination of these groups; free of rock or gravel larger than 75 mm (3 inches) in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.

- C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, or a combination of these groups.
  - 1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.
- D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 37.5-mm (1-1/2-inch) sieve and not more than 12 percent passing a 0.075-mm (No. 200) sieve.
- E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 95 percent passing a 37.5-mm (1-1/2-inch) sieve and not more than 8 percent passing a 0.075-mm (No. 200) sieve.
- F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 37.5-mm (1-1/2-inch) sieve and not more than 12 percent passing a 0.075-mm (No. 200) sieve.
- G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 25-mm (1-inch) sieve and not more than 8 percent passing a 0.075-mm (No. 200) sieve.
- H. Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 37.5-mm (1-1/2-inch) sieve and 0 to 5 percent passing a 2.36-mm (No. 8) sieve.
- I. Filter Material: Narrowly graded mixture of natural or crushed gravel, or crushed stone and natural sand; ASTM D 448; coarse-aggregate grading Size 67; with 100 percent passing a 25-mm (1-inch) sieve and 0 to 5 percent passing a 4.75-mm (No. 4) sieve.
- J. Sand: ASTM C 33; fine aggregate, natural, or manufactured sand.
- K. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.

## 2.2 SHORING MATERIALS

- A. General: Provide materials that are either new or in serviceable condition.
- B. Structural Steel: ASTM A 36M, ASTM A 690M, or ASTM A 992M.
- C. Steel Sheet Piling: ASTM A 328M, ASTM A 572M, or ASTM A 690M; with continuous interlocks.
- D. Wood Lagging: Lumber, mixed hardwood, nominal rough thickness of (75 mm).
- E. Cast-in-Place Concrete: ACI 301, of compressive strength required for application.
- F. Reinforcing Bars: ASTM A 615M, Grade 60 (420), deformed.

## 2.3 GEOTEXTILES

- A. Subsurface Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
1. Survivability: Class 2; AASHTO M 288.
  2. Grab Tensile Strength: 700 N (157 lbf); ASTM D 4632.
  3. Sewn Seam Strength: 630 N (142 lbf); ASTM D 4632.
  4. Tear Strength: 250 N (56 lbf); ASTM D 4533.
  5. Puncture Strength: 250 N (56 lbf); ASTM D 4833.
  6. Apparent Opening Size: 0.425-mm (No. 40) 0.250-mm (No. 60) 0.212-mm (No. 70) sieve, maximum; ASTM D 4751.
  7. Permittivity: 0.5 0.2 0.1 per second, minimum; ASTM D 4491.
  8. UV Stability: 50 percent after 500 hours' exposure; ASTM D 4355.
- B. Separation Geotextile: Woven geotextile fabric, manufactured for separation applications, made from polyolefins or polyesters; with elongation less than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
1. Survivability: Class 2; AASHTO M 288.
  2. Grab Tensile Strength: 1100 N (247 lbf); ASTM D 4632.
  3. Sewn Seam Strength: 990 N (222 lbf); ASTM D 4632.
  4. Tear Strength: 400 N (90 lbf); ASTM D 4533.
  5. Puncture Strength: 400 N (90 lbf); ASTM D 4833.
  6. Apparent Opening Size: 0.250-mm (No. 60) sieve, maximum; ASTM D 4751.
  7. Permittivity: 0.02 per second, minimum; ASTM D 4491.
  8. UV Stability: 50 percent after 500 hours' exposure; ASTM D 4355.

## 2.4 ACCESSORIES

- A. Detectable Warning Tape: Acid- and alkali-resistant polyethylene film warning tape manufactured for marking and identifying underground utilities, a minimum of 150 mm (6 inches) wide and 0.1 mm (4 mils) thick, continuously inscribed with a description of the utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 750 mm (30 inches) deep; colored as follows:
1. Red: Electric.
  2. Yellow: Gas, oil and dangerous materials.
  3. Orange: Telephone and other communications.
  4. Blue: Water systems.
  5. Green: Sewer systems.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
- B. Preparation of subgrade for earthwork operations including removal of vegetation, topsoil, debris, obstructions, and deleterious materials from ground surface is specified in Division 2 Section "Site Clearing."
- C. Protect and maintain erosion and sedimentation controls, which are specified in Division 2 Section "Site Clearing," during earthwork operations.
- D. Provide protective insulating materials to protect subgrades and foundation soils against freezing temperatures or frost.

### 3.2 DEWATERING

- A. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.
- B. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.
  - 1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.
  - 2. Install a dewatering system, specified in Division 2 Section "Dewatering," to keep subgrades dry and convey ground water away from excavations. Maintain until dewatering is no longer required.
  - 3. Do not expose subgrade to atmospheric conditions for extended periods. If necessary, use temporary cover or a thin layer of concrete (i.e. mud mats).
- C. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by dewatering operations.
  - 1. Prevent soil fines from being pumped (internal erosion) and conveyed offsite.
  - 2. Install dewatering system to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities.
  - 3. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from COR and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
- D. Installation

1. Install dewatering system utilizing pumps, standby power, filter material, valves, appurtenances, water disposal, and surface-water controls.
2. Before excavating below ground-water level, place system into operation to lower water to specified levels. Operate system continuously until drains, sewers, and structures have been constructed and fill materials have been placed, or until dewatering is no longer required.
3. Provide an adequate system to lower and control ground water to permit excavation, construction of structures, and placement of fill materials on dry subgrades. Install sufficient dewatering equipment to drain water-bearing strata above and below bottom of foundations, drains, sewers, and other excavations.
  - a. Do not permit open-sump pumping that leads to loss of fines, soil piping, subgrade softening, and slope instability.
4. Reduce hydrostatic head in water-bearing strata below subgrade elevations of foundations, drains, sewers, and other excavations.
  - a. Maintain local water level a minimum of **24 inches 600 mm** below surface of excavation.
5. Dispose of water removed by dewatering in a manner that avoids endangering public health, property, and portions of work under construction or completed. Dispose of water in a manner that avoids inconvenience to others. Provide sumps, sedimentation tanks, and other flow-control devices as necessary.
6. Provide standby equipment on-site, installed and available for immediate operation, to maintain dewatering on continuous basis if any part of system becomes inadequate or fails. If dewatering requirements are not satisfied due to inadequacy or failure of dewatering system, restore damaged structures and foundation soils at no additional expense to Owner.
  - a. Remove dewatering system from Project site on completion of dewatering.
7. Damages: Promptly repair damages to adjacent facilities caused by dewatering operations.

### 3.3 EXPLOSIVES

- A. Explosives: Do not use explosives.

### 3.4 EXCAVATION, GENERAL

- A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.
2. Excavated side slopes for general excavation, structures, utility trenches shall not exceed 1.0 V to 2.0 H. Shoring and bracing shall be required for slopes exceeding 1.0 V to 2.0 H. For excavations below the water table, sheeting and shoring may also be necessary.

### 3.5 EXCAVATION FOR STRUCTURES

- A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 25 mm (1 inch). If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
  1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. If necessary place a layer of binding concrete (i.e. mud mat). Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.
  2. Pile Foundations: Stop excavations 150 to 300 mm (6 to 12 inches) above bottom of pile cap before piles are placed. After piles have been driven, remove loose and displaced material. Excavate to final grade, leaving solid base to receive concrete pile caps.
  3. Excavation for Underground Tanks, Basins, and Mechanical or Electrical Utility Structures: Excavate to elevations and dimensions indicated within a tolerance of plus or minus 25 mm (1 inch). Do not disturb bottom of excavations intended as bearing surfaces.

### 3.6 EXCAVATION FOR WALKS AND PAVEMENTS

- A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

### 3.7 EXCAVATION FOR UTILITY TRENCHES

- A. Excavate trenches to indicated gradients, lines, depths, and elevations.
  1. Beyond building perimeter, excavate trenches to allow installation of top of pipe below frost line.
- B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 300 mm (12 inches) higher than top of pipe or conduit.
  1. Clearance: 300 mm (12 inches) each side of pipe or conduit.
- C. Trench Bottoms: Excavate trenches 100 mm (4 inches) deeper than bottom of pipe elevation to allow for bedding course. Hand excavate for bell of pipe.

1. Excavate trenches 150 mm (6 inches) deeper than elevation required in rock or other unyielding bearing material to allow for bedding course.

### 3.8 SUBGRADE INSPECTION

- A. Notify COR when excavations have reached required subgrade.
- B. If COR determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.
- C. Proof-roll subgrade below the building slabs and pavements with heavy pneumatic-tired equipment to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
  1. Completely proof-roll subgrade in one direction, repeating proof-rolling in direction perpendicular to first direction. Limit vehicle speed to 5 km/h (3 mph).
  2. Proof-roll with a loaded 10-wheel, tandem-axle dump truck weighing not less than 13.6 tonnes (15 tons).
  3. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by COR, and replace with compacted backfill or fill as directed.
- D. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by COR, without additional compensation.

### 3.9 SHORING

- A. Preparation
  1. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards that could develop during excavation support and protection system operations.
    - a. Shore, support, and protect utilities encountered.
  2. Install Shoring to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities.
    - a. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from the C.O.R. and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.
  3. Locate excavation support and protection systems clear of permanent construction so that forming and finishing of concrete surfaces is not impeded.
  4. Monitor excavation support and protection systems daily during excavation progress and for as long as excavation remains open. Promptly correct bulges, breakage, or other evidence of

movement to ensure that excavation support and protection systems remain stable.

5. Promptly repair damages to adjacent facilities caused by installing excavation support and protection systems.
- B. Installation
1. Before starting excavation, submit engineered drawing or standard design to COR for written approval. Do not proceed until written approval is provided.
  2. In the case of an engineered system, provide product information on Piling, Beams, Sheet Piling, Tiebacks, Bracing, Walers and hardware showing conformance with engineered design.
- C. Removal And Repairs
1. Remove excavation support and protection systems when construction has progressed sufficiently to support excavation and bear soil and hydrostatic pressures. Remove in stages to avoid disturbing underlying soils or damaging structures, pavements, facilities, and utilities.
  2. Leave excavation support and protection systems permanently in place only with permission of the COR.
- 3.10 UNAUTHORIZED EXCAVATION
- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. 20 mm (3/4-inch) size stone or lean concrete fill, with 28-day compressive strength of 17.2 MPa (2500 psi), may be used when approved by COR.
1. Fill unauthorized excavations under other construction or utility pipe as directed by COR.
- 3.11 STORAGE OF SOIL MATERIALS
- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.
- 3.12 BACKFILL
- A. Place and compact backfill to required density in excavations promptly, but not before completing the following:
1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
  2. Surveying locations of underground utilities for Record Documents.
  3. Testing and inspecting underground utilities.

4. Removing concrete formwork.
  5. Removing trash, debris, compressible material, and organic soils. .
  6. Removing temporary shoring and bracing, and sheeting.
  7. Installing permanent or temporary horizontal bracing on horizontally supported walls.
- B. Place backfill on subgrades free of mud, frost, snow, or ice.
- C. Based on the Geotechnical Investigation by the Louis Berger Group, on site material may not be suitable for backfilling in most cases. Granular backfill meeting the following general criteria is typically acceptable for instances where controlled backfill is necessary:
- Maximum particle size 100mm (4 in.);
  - No more than 30% by weight retained on the 20mm (¾-in.) sieve;
  - No more than 40% by weight passing the #100 sieve; and,
  - No more than 12% by weight passing the #200 sieve, non-plastic.
- 3.13 UTILITY TRENCH BACKFILL
- A. Place backfill on subgrades free of mud, frost, snow, or ice.
- B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.
- C. Backfill trenches excavated under footings and within 450 mm (18 inches) of bottom of footings with satisfactory soil; fill with concrete to elevation of bottom of footings. Concrete is specified in Division 3 Section "Cast-in-Place Concrete."
- D. Provide 100-mm (4-inch) thick, concrete-base slab support for piping or conduit less than 750 mm (30 inches) below surface of roadways. After installing and testing, completely encase piping or conduit in a minimum of 100 mm (4 inches) of concrete before backfilling or placing roadway subbase.
- E. Place and compact initial backfill of subbase material, free of particles larger than 25 mm (1 inch) in any dimension, to a height of 300 mm (12 inches) over the utility pipe or conduit.
1. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of utility piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.
- F. Backfill voids with satisfactory soil while installing and removing shoring and bracing.
- G. Place and compact final backfill of satisfactory soil to final subgrade elevation.
- H. Install warning tape directly above utilities, 300 mm (12 inches) below finished grade, except 150 mm (6 inches) below subgrade under pavements and slabs.

### 3.14 SOIL FILL

- A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.
- B. Place and compact fill material in layers to required elevations as follows:
  - 1. Under grass and planted areas, use satisfactory soil material.
  - 2. Under walks and pavements, use satisfactory soil material.
  - 3. Under steps and ramps, use engineered fill.
  - 4. Under building slabs, use engineered fill.
  - 5. Under footings and foundations, use engineered fill.
- C. Place soil fill on subgrades free of mud, frost, snow, or ice.

### 3.15 SOIL MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
  - 1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
  - 2. Remove and replace, or scarify and air dry otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

### 3.16 COMPACTION OF SOIL BACKFILLS AND FILLS

- A. Place backfill and fill soil materials in layers not more than 300 mm (12 inches) in loose depth for material compacted by heavy compaction equipment, and not more than 200 mm (8 inches) in loose depth for material compacted by hand-operated tampers.
- B. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.
- C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 1557:
  - 1. Under structures, building slabs, steps, and pavements, scarify and recompact top 300 mm (12 inches) of existing subgrade and each layer of backfill or fill soil material at 95 percent.
  - 2. Under walkways, scarify and recompact top 150 mm (6 inches) below subgrade and compact each layer of backfill or fill soil material at 92 percent.
  - 3. Under lawn or unpaved areas, scarify and recompact top 150 mm (6 inches) below subgrade and compact each layer of backfill or fill soil material at 85 percent.
  - 4. For utility trenches, compact each layer of initial and final backfill soil material at 90 percent.

### 3.17 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
  - 1. Provide a smooth transition between adjacent existing grades and new grades.
  - 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Site Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
  - 1. Lawn or Unpaved Areas: Plus or minus 25 mm (1 inch).
  - 2. Walks: Plus or minus 25 mm (1 inch).
  - 3. Pavements: Plus or minus 13 mm (1/2 inch).
- C. Grading inside Building Lines: Finish subgrade to a tolerance of 13 mm (1/2 inch) when tested with a 3-m (10-foot) straightedge.

### 3.18 SUBBASE COURSES

- A. Place subbase course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place subbase course under pavements and walks as follows:
  - 1. Install separation geotextile on prepared subgrade according to manufacturer's written instructions, overlapping sides and ends only in locations directed by the Geotechnical Engineer.
  - 2. Shape subbase course to required crown elevations and cross-slope grades.
  - 3. Place subbase course 150 mm (6 inches) or less in compacted thickness in a single layer.
  - 4. Place subbase course that exceeds 150 mm (6 inches) in compacted thickness in layers of equal thickness, with no compacted layer more than 150 mm (6 inches) thick or less than 75 mm (3 inches) thick.
  - 5. Compact subbase course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 698.

### 3.19 DRAINAGE COURSE

- A. Place drainage course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place and compact drainage course under cast-in-place concrete slabs-on-grade as follows:
  - 1. Install subdrainage geotextile on prepared subgrade according to manufacturer's written instructions, overlapping sides and ends.
  - 2. Place drainage course 150 mm (6 inches) or less in compacted thickness in a single layer.
  - 3. Place drainage course that exceeds 150 mm (6 inches) in compacted thickness in layers of equal thickness, with no

compacted layer more than 150 mm (6 inches) thick or less than 75 mm (3 inches) thick.

4. Compact each layer of drainage course to required cross sections and thicknesses to not less than 95 percent of maximum dry unit weight according to ASTM D 1557.

### 3.20 FIELD QUALITY CONTROL

- A. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earthwork only after test results for previously completed work comply with requirements.
- B. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by COR.
- C. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable. Tests will be performed at the following locations and frequencies:
  1. Paved and Building Slab Areas: At subgrade and at each compacted fill and backfill layer, at least 1 test for every 186 sq. m (2000 sq. ft.) or less of paved area or building slab, but in no case fewer than 3 tests.
  2. Foundation Wall Backfill: At each compacted backfill layer, at least 1 test for each 30 m (100 feet) or less of wall length, but no fewer than 2 tests.
  3. Trench Backfill: At each compacted initial and final backfill layer, at least 1 test for each 46 m (150 feet) or less of trench length, but no fewer than 2 tests.
- D. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil to depth required; recompact and retest until specified compaction is obtained.

### 3.21 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
  1. Scarify or remove and replace soil material to depth as directed by COR; reshape and recompact.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.

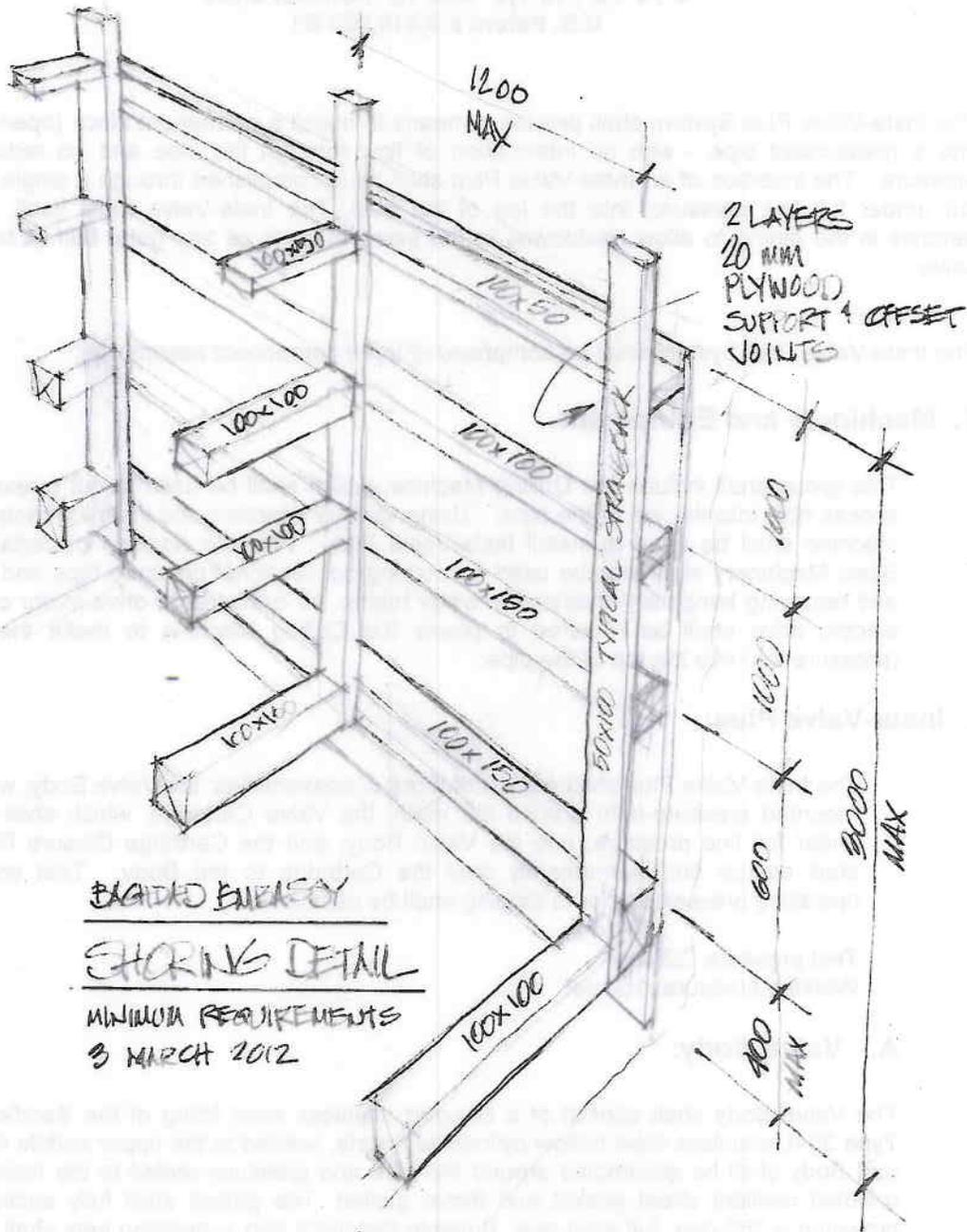
1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.
- 3.22 DISPOSAL OF SURPLUS AND WASTE MATERIALS
- A. Disposal: Remove surplus satisfactory soil and waste material, including unsatisfactory soil, trash, and debris, and legally dispose of it off Owner's property. Contractor may elect to coordinate with other Contractors working on other RFP Packages to transport surplus satisfactory soil to and/or from other contractor work areas as an option to importing from offsite sources or exporting off of the property.

END OF SECTION 02300

Section 02304 EXCAVATION and SHORING

**Appendix A**

Standard Baghdad Embassy detail for excavation protection on the Embassy Compound for depths not to exceed 3 meters.



## ATTACHMENT # 7

# HYDRA-STOP®

## SPECIFICATIONS FOR INSTA-VALVE PLUS SYSTEM

4", 6", 8", 10", 12" and 16" Nominal Sizes

U.S. Patent # 6,810,903 B1

The Insta-Valve Plus System shall provide a means to install a permanent block (open-close) valve into a pressurized pipe - with no interruption of flow through the pipe and no reduction of line pressure. The insertion of an Insta-Valve Plus shall be accomplished through a single circular hole cut (under full line pressure) into the top of the pipe. The Insta-Valve Plus, itself, permanently remains in the piping to allow shutdowns in the same manner as any gate, ball or butterfly block valve.

The Insta-Valve Plus System shall be comprised of three component assemblies:

### 1. Machinery and Equipment

This group shall include the Drilling Machine, which shall be used to cut (pressure tap) the access hole into the top of the pipe. Using various adaptors and inserting tools, this Drilling machine shall be used to install Insta-Valve Plus. With the addition of certain parts, this Basic Machinery shall also be used for making conventional pressure taps and for installing and removing temporary linestops in water mains. Air or hydraulic drive motor or an optional electric drive shall be required to power the Drilling Machine to make the access cut (pressure tap) into the top of the pipe.

### 2. Insta-Valve Plus:

The Insta-Valve Plus shall consist of three subassemblies: the Valve Body, which shall be mounted pressure-tight around the main; the Valve Cartridge, which shall be inserted, under full line pressure, into the Valve Body; and the Cartridge Closure Flange, which shall secure and permanently seal the Cartridge to the Body. Test and maximum operating pressures prior to tapping shall be as follows:

Test pressure: 225 psi

Working pressure: 150 psi

#### A. Valve Body:

The Valve Body shall consist of a two-part stainless steel fitting of the Saddle type with a Type 304L stainless steel hollow cylindrical nozzle, welded to the upper saddle half. The two part Body shall be assembled around the pipe and pressure-sealed to the main by a single gridded resilient sheet gasket and throat gasket. The gasket shall fully encircle the pipe, providing a 360-deg. full area seal. Suitable fasteners and supporting lugs shall be provided, as specified below.

**Saddles:**

Saddles shall be formed from Type 304L stainless steel. The design of the Saddles, Bolting, Lugs and Armor Plates shall be such that the Fitting halves can be mounted, without further modification, pressure-tight onto the following 4", 6", 8", 10", 12" and 16" nominal size pipes:

- 1) Cast Iron: Pit Cast - Classes A, B, C. & D
- 2) Cast Iron: Centrifugal - Classes – all
- 3) Asbestos-Cement: Classes 100, 150 & 200
- 4) Ductile Iron: Classes – all
- 5) PVC (AWWA C900): Classes 100, 150, & 200

**Bolting Lugs**

Bolting lugs shall be Type 304L stainless steel weldments and shall be designed and positioned on the fitting halves to insure accurate assembly of both halves. After assembly around the pipe, the vertical spacing of the Bolting Lugs between the two fitting halves shall allow adjustment to accommodate the range of pipe diameters specified above.

**Bolting Studs:**

Bolting Studs, Nuts, along with any formed metal washers shall be fabricated from Type 304 stainless steel. All screw threads shall be 5/8-11UNC-2 (coarse). Nuts shall be heavy series. The number of fasteners per side of each fitting shall be as follows - 4":4; 6": 5; 8": 5, 10":6; 12": 6 16":24.

**Sheet Gasket:**

Sheet Gasket shall be molded from a virgin SBR elastomer compound that will resist compression set and is compatible with cold drinking water in the normal 32 to 120 deg. A gridded ("waffle") pattern shall be molded on the inner side of the gasket. Each side (which lies parallel to the run of the pipe) of the Gasket shall be tapered to allow uniform distribution of clamping (gasket) pressure over the entire circumference of the pipe. A stainless steel Armor Plate shall be attached to each side of the Gasket to bridge the gap between the Saddle Halves.

**Nozzle**

Nozzle of the Upper Fitting Half shall be machined from Type 304 stainless steel, and shall have a weldneck Valve Flange with locking pins to mate with the top groove of the Stuffing Box Plate (which is part of the Valve Cartridge). Below these locking pins, the interior of the Nozzle shall be accurately bored to seal against the "O"- ring contained in the Stuffing Box Plate. The bore shall be further machined to provide a shoulder to vertically locate the Valve Cartridge when it is inserted into the Body.

- 1) Two opposing rectangular keyways shall be machined into the interior wall of the Nozzle to receive the Guide Keys on the Valve Cartridge Carrier.

**B. Valve Cartridge:**

Valve Cartridge shall consist of a Stuffing Box Plate, Valve Stem with Operating Nut, Valve Plugging Head that shall consist of a Carrier with an internal Deformable Sealing Element and two external Resilient Sealing Sleeves, and ancillary parts and fasteners. This Cartridge shall be inserted into the Nozzle under full line pressure by means of a Cartridge Inserter, which shall be attached to the Drilling Machine (that cut the access hole into the top of the main).

**Stuffing Box Plate:**

Stuffing Box Plate shall retain the collar of the Valve Stem against the Cartridge Closure Flange to prevent vertical motion during normal operation of the Insta-Valve Plus. Suitable thrust washers shall be installed above and below the Stem collar.

- 1) The bore of this plate shall provide a pressure sealing surface for "O"-rings mounted on the valve stem.
- 2) The exterior of this plate shall be grooved to receive locking pins installed from the nozzle flange after plate has been inserted into the nozzle and has seated against the internal nozzle shoulder. Below this pin groove, the plate shall be further machined to accept a "O"-ring to provide a pressure-seal between the exterior of the plate and the bore of the nozzle.

**Valve Stem:**

During normal operation of the Insta-Valve Plus, rotation of the stem shall advance the valve carrier with sealing devices into the fully closed position to stop flow in the pipe. Reversal of stem rotation shall retract the carrier into the completely open position, allowing full flow through the main.

- 1) The stem shall be machined from wrought bronze. With a 700 LB torque capacity.
- 2) At customer's option, the stem shall be machined to open the valve by turning it clockwise (open right) or counter clockwise (open left).
- 3) The top the stem shall be provided with a detachable, 2" square operating nut.
- 4) Valve shall be operated at 3 turns per inch for 4" through 12" and 4 turns per inch for 16".

**Valve Plugging Head:**

Valve plugging head shall consist of two major components: rigid cylindrical Carrier and three elastomer sealing devices, along with connecting parts and fasteners.

- 1) Carrier shall be a rigid, solid cylinder, turned to provide clearance to enter the access (tapped) hole in the pipe. A vertical central slot shall be machined into the lower portion of the Carrier. This slot shall contain a single flat Deformable Sealing Element. The Carrier shall consist of a solid CM-909 body with rubber coating on the middle half of the CM-909 body.
- 2) Bottom of Carrier shall be hemispherical to generally conform to the bore of the pipe. It shall be designed to break and to dislodge tuberculation and other deposits that might interfere with a suitable shutdown.
- 3) The Carrier top, above the slot, shall contain an internal brass thread to mate with that on the Valve Stem. Suitable mechanical means shall be provided to attach the Deformable Element to the Carrier to insure retraction upon opening.
- 4) Rectangular Guide Keys shall be inserted to the top of the Carrier. These Keys shall be positioned to engage with and slide in the keyways machined into the interior walls of the Nozzle. This action shall maintain alignment of the Valve Cartridge when the Insta-Valve Plus is operated.
- 5) A single Deformable Sealing Element shall be contained inside the slot in the Carrier. The Element shape shall be generally flat with the lower end semi-circular to seal the bottom of the pipe. The Carrier shall deform that Element into sealing contact with the pipe wall when the Insta-Valve Plus is closed.
- 6) A Resilient Sleeve shall be attached to each of the two vertical cylindrical sides of the Carrier. When the Insta-Valve Plus is closed, these two Sleeves shall seal against the Deformable Element and those surfaces of the pipe not sealed by the element, thereby completing the shutdown.

**C. Cartridge Closure Flange:**

The Cartridge Closure Flange with a flat flange gasket shall be used to complete the installation of the Insta-Valve Plus. After the Stuffing Box Plate has been seated on the shoulder in the Nozzle and the Lock Screws have been tightened from the Nozzle Flange, the Valve cartridge is now mechanically secure in the Valve Body. All water leakage paths have been sealed. The installation equipment shall now be removed and the Closure Flange shall be installed over the thrust washer in the Valve Stem. A Stem "O"- ring shall pressure-seal against a bored hole in the Closure Flange. The Flange shall then be bolted to the Nozzle flange, followed by installation of the Valve Operating Nut.

**Materials**

- 1) Cartridge Closure Flange, at manufacturer's option, shall be machined from mild structural steel, cast or ductile iron.

**D. Pressure:**

The Insta-Valve Plus does not guarantee a 100% shutdown due to unknown factors within the pipe. The Insta-Valve Plus is rated to 150 PSI working pressure and 225 PSI test pressure.

**ATTACHMENT # 8**  
**MEGALUBE SPECIFICATIONS**

The MEGALUBE Grease is a lithium base grease with a NLGI grade of 2. It is designed for use in the most severe conditions. The grease is formulated to the most advanced standards and is suitable for use in the most severe conditions. The grease is formulated to the most advanced standards and is suitable for use in the most severe conditions. The grease is formulated to the most advanced standards and is suitable for use in the most severe conditions.

The MEGALUBE Grease is a lithium base grease with a NLGI grade of 2. It is designed for use in the most severe conditions. The grease is formulated to the most advanced standards and is suitable for use in the most severe conditions. The grease is formulated to the most advanced standards and is suitable for use in the most severe conditions.

**D. Pressure:**

The MEGALUBE Grease is a lithium base grease with a NLGI grade of 2. It is designed for use in the most severe conditions. The grease is formulated to the most advanced standards and is suitable for use in the most severe conditions. The grease is formulated to the most advanced standards and is suitable for use in the most severe conditions.

# Series 1100HD

Split MEGALUG® Bell Restraint Harness  
for Existing Ductile Iron Pipe



Series 1116HD on 16 inch Ductile Iron Pipe.

#### Features and Applications:

- For use on Existing Ductile Iron Pipe at Pipe to Pipe Push On Joints
- MEGA-BOND® Restraint Coating System
- Minimum 2 to 1 Safety Factor
- Split Design for Ease of Installation
- Constructed of ASTM A536 Ductile Iron

For use on water or wastewater pipelines subject to hydrostatic pressure and tested in accordance with either AWWA C600 or ASTM D2774.

Pressure Ratings Table

Nominal Pipe Size	Series Number	Approximate Shipping Weight	Thrust Rods (Quantity - Size)	Pressure Rating (PSI)
3	1103HD	9.50	4 - ¾ x 12	350
4	1104HD	23.50	4 - ¾ x 13	350
6	1106HD	33.00	4 - ¾ x 13	350
8	1108HD	41.00	4 - ¾ x 13	350
10	1110HD	63.16	4 - ¾ x 18	300
12	1112HD	77.06	4 - ¾ x 18	300
14	1114HD	136.15	6 - ¾ x 18	300
16	1116HD	143.92	8 - ¾ x 18	300
18	1118HD	160.41	8 - ¾ x 18	200
20	1120HD	187.08	10 - ¾ x 18	200
24	1124HD	252.89	12 - ¾ x 18	200
30	1130HD	492.20	16 - 1 x 18	200
36	1136HD	546.30	20 - 1 x 18	200
42	1142HD	964.30	24 - 1¼ x 28	175
48	1148HD	1270.90	28 - 1¼ x 28	175

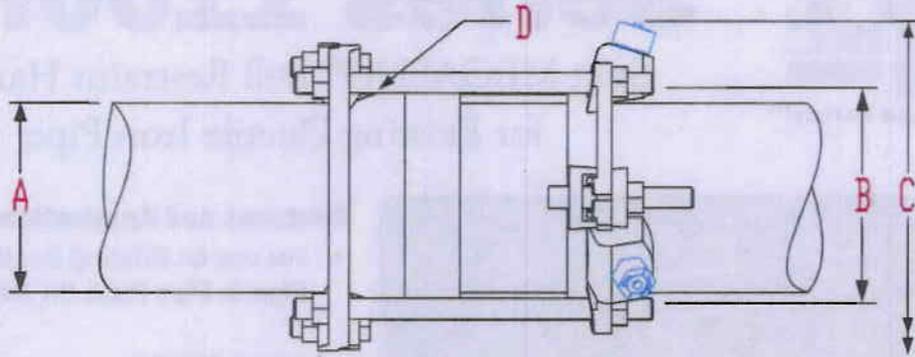
NOTE: For applications or pressures other than those shown, please contact EBAA for assistance.

#### Sample Specification

Restraint for existing bell joints found on ductile iron pipes shall consist of the following: The restraints shall be manufactured of ductile iron conforming to ASTM A536. The split restraint rings, incorporating a plurality of individually-actuating gripping surfaces, shall be used to grip the pipe on either side of the bell, and a sufficient number of rods shall be used to connect each restraint to one another. The restraint devices shall be coated using MEGA-BOND. (For complete specifications on MEGA-BOND visit [www.ebaa.com](http://www.ebaa.com).) The combination shall have a minimum working pressure rating as shown in the adjacent table. The restraint shall be the Series 1100HD, as manufactured by EBAA Iron, Inc., or approved equal.

## Submittal Reference Drawing

EBAA IRON



MADE IN USA

Nominal Pipe Size	Series Number	A Pipe O.D.	B Maximum Bell O.D. Cleared	C Casing Clearance (w/ Nuts Off)	D Thrust Rods (Quantity - Size)
3	1103HD	3.95	5.40	9.06	4 - 5/8 x 12
4	1104HD	4.81	6.60	9.90	4 - 3/4 x 13
6	1106HD	6.90	8.60	12.00	4 - 3/4 x 13
8	1108HD	9.05	10.90	14.15	4 - 3/4 x 13
10	1110HD	11.10	13.10	16.20	4 - 3/4 x 18
12	1112HD	13.20	15.40	18.30	4 - 3/4 x 18
14	1114HD	15.30	17.90	21.88	6 - 3/4 x 18
16	1116HD	17.40	20.10	24.13	8 - 3/4 x 18
18	1118HD	19.50	22.40	26.50	8 - 3/4 x 18
20	1120HD	21.60	24.60	28.50	10 - 3/4 x 18
24	1124HD	25.80	29.10	33.38	12 - 3/4 x 18
30	1130HD	32.00	35.80	40.25	16 - 1 x 18
36	1136HD	38.30	42.60	46.75	20 - 1 x 18
42	1142HD	44.50	49.20	55.57	24 - 1 1/4 x 28
48	1148HD	50.80	56.00	61.87	28 - 1 3/4 x 28

NOTE: Dimensions are in inches and are subject to change without notice.

### Installation Instructions

The Series 1100HD is designed for restraining existing ductile iron pipe, conforming to ANSI/AWWA C151/A21.51 (all thickness classes), push on pipe bells. It has a split restraint ring on the spigot and a split ring behind the bell.



1. Install the split ring behind the bell in the direction indicated on the casting. Tighten the clamp bolts to 90 ft-lbs.

### EBAA IRON Sales, Inc.

P.O. Box 857, Eastland, TX 76448

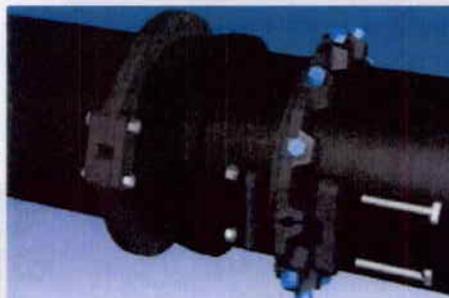
Tel: (254) 629-1731

Fax: (254) 629-8931

(800) 433-1716 within US and Canada

contact@ebaa.com

www.ebaa.com



2. Disassemble the split restraint ring then reassemble restraint on the spigot such that the bolt holes are in alignment and the distance between the rings is suitable for the tie bolt length with the lip of the restraint facing toward the bell. Allow enough room on the tie bolt to fully engage the nut with several threads showing.



4. Tighten the torque limiting twist off nuts in a clockwise direction (direction indicated by arrow on top of nut) until all wedges are in firm contact with the pipe surface.



3. Install the tie bolts in each available bolt hole for maximum distribution of operating forces. Place nuts on the end of the tie bolts. Allow enough room on the tie bolt to fully engage the nut with several threads showing.

Pull the restraint ring away from the joint until the slack is removed from the tie bolts.

#### Continued from Step 4

Continue tightening in an alternate manner until all of the nuts have been twisted off.

Tighten the tie bolt nuts until the ring behind the bell is in firm contact with the back of the bell.

5. If removal is necessary, use the 5/8" hex heads provided. If reassembly is required, assemble the product in the same manner as indicated in the previous steps and tighten the wedge bolts to 90 ft-lbs.

Members of...



## 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 18 including a completed Attachment 4, "BREAKDOWN OF PROPOSAL PRICE BY DIVISIONS OF SPECIFICATIONS	ONE
II	Performance schedule in the form of a "bar chart" and Business Management/Technical Proposal.	ONE

Submit the complete quotation to the address indicated on Standard Form 1442 (block 8), if mailed, or the address set forth below, if hand delivered.

U.S Embassy  
Al Kindi Street

Baghdad International Zone, Iraq  
(marked for the attention of the  
**“Contracting Officer – Proposal S-IZ100-12-R-0033 Enclosed”**)

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.

LICENSES: Provide the following information:

- (1) A copy of the company registration with the Iraqi Ministry of Trade, or
- (2) For foreign companies, a copy of the company registration with the Foreign Companies Section of the Iraqi Ministry of Trade,

INSURANCE & PAYMENT PROTECTION INFORMATION: Provide the following information:

- (1) A statement identifying the insurance company from which the general liability insurance policy will be purchased if awarded the contract

**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 **10:00 hours on Thursday May 14, 2012.**
- (c) **Participants will meet at the U. S. Embassy, Red CAC on Al Kindi Street, International Zone, Baghdad, Iraq.**
- (d) In order to be admitted to the Site Visit, a Site Visit Registration form must be submitted by email to this address [BaghdadGSOProcurement@state.gov](mailto:BaghdadGSOProcurement@state.gov) no later than 12:00 noon (Baghdad Time) on Wednesday May 09, 2012. No more than 1 person will be admitted from each company. The form is available for download from the Embassy web site at [http://iraq.usembassy.gov/gso\\_procurement.html](http://iraq.usembassy.gov/gso_procurement.html) or you may request a copy of the form by email at [BaghdadGSOProcurement@state.gov](mailto:BaghdadGSOProcurement@state.gov).

**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:

(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."

## 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 52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

#### (a) Definitions.

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

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

- (b) All offerors must submit the information required in paragraphs (d) through (f) of this provision in order to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325 (d), reporting requirements of 26 USC 6041, 6041A, and 6050M and implementing regulations issued by the Internal Revenue Service (IRS). If the resulting contract is subject to the reporting requirements described in FAR 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.
- (c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 USC 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.
- (d) Taxpayer Identification Number (TIN).

TIN: \_\_\_\_\_

TIN has been applied for.

TIN is not required because:

Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the U.S. and does not have an office or place of business or a fiscal paying agent in the U.S.;

Offeror is an agency or instrumentality of a foreign government;

Offeror is an agency or instrumentality of the Federal Government.

#### (e) Type of Organization.

Sole Proprietorship;

Partnership;

Corporate Entity (not tax exempt);

Corporate Entity (tax exempt);

- Government entity (Federal, State, or local);
- Foreign government;
- International organization per 26 CFR 1.6049-4;
- Other \_\_\_\_\_

## (f) Common Parent.

- Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this clause.
- Name and TIN of common parent;

Name \_\_\_\_\_  
 TIN \_\_\_\_\_

(End of provision)

## **L.2 52.204-6 CONTRACTOR IDENTIFICATION NUMBER -DATA UNIVERSAL NUMBERING SYSTEM (DUNS) NUMBER (OCT 2003)**

- (a) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation "DUNS" or "DUNS+4" followed by the DUNS number or DUNS+4 that identifies the offeror's name and address exactly as stated in the offer. The DUNS number is a nine-digit number assigned by Dun and Bradstreet Information Services. The DUNS+4 is the DUNS number plus a 4-character suffix that may be assigned at the discretion of the offeror to establish additional CCR records for identifying alternative Electronic Funds Transfer (EFT) accounts (see Subpart 32.11) for the same parent company.

If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one. An offeror may obtain a DUNS number-

- If located within the United States, by calling Dun and Bradstreet at 1-866-705-5711 or via the Internet at <http://www.dnb.com>; or
- If located outside the United States, by contacting the local Dun and Bradstreet office.

The offeror should be prepared to provide the following information:

- Company legal business name.
- Tradestyle, doing business, or other name by which your entity is commonly recognized.
- Company physical street address, city, state and Zip Code.
- Company mailing address, city, state and Zip Code (if separate from physical)
- Company telephone number
- Date the company was started.
- Number of employees at your location.
- Chief executive officer/key manager.

- Line of business (industry)
- Company Headquarters name and address (reporting relationship within your entity).

### L.3 52.204-8 Annual Representations and Certifications. (Feb 2012)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 236220 for Construction Management, commercial and institutional building or Warehouse construction; 237310 for Construction Management, highway road, street or bridge; 237990 for Construction Management, outdoor recreation facility; 236118 for Construction Management, residential remodeling; 237110 for Construction Management, water and sewage line and related structures.

(2) The small business size standard is \$28.5 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 accessed through <https://www.acquisition.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
_____	_____	_____	_____

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.4. 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.5 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.6 652.228-70 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:

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

- (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.7. 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)