

U.S. Embassy Cairo
Date: September 10, 2020

To: Prospective Quoters

Subject: Request for Quotations number **19EG3020Q0023**

Enclosed is a Request for Quotations (RFQ) for **Maadi House Sanctuary**. If you would like to submit a quotation, follow the instructions in Section L of the solicitation, complete the required portions of the attached document, and submit it to the address shown on the Standard Form 18 that follows this letter.

A site visit will be held on September 17, 2020 10:00 AM Villa 21 Road 19, Maadi.

In order to attend the site visit, you are kindly requested to provide the name and Egyptian ID number /Passport # of each of your representatives that will attend maximum by 11:00AM September 15, 2020. Please e-mail this information to ShoukryNF@state.gov to prepare for your access to the Embassy premises, mentioning the solicitation number and project title in the email subject field noting that each company has the right to send only two representatives.

Deadline for receiving your solicitation technical questions to cairocontracts@state.gov is September 20, 2020 – 12:00 PM; Embassy official reply will be by September 21, 2020.

Your offer must be submitted by e-mail to CairoContracts@state.gov on or before September 24, 2020 at 2:00 pm

The U.S. Government intends to award a contract to the responsible company submitting an acceptable quotation at the lowest price. We intend to award a contract/purchase order based on initial quotations, without holding discussions, although we may hold discussions with companies in the competitive range if there is a need to do so.

Sincerely,

Contracting Officer

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**REQUEST FOR QUOTATION
(THIS IS NOT AN ORDER)**

THIS RFQ IS IS NOT A SMALL BUSINESS SET-ASIDE

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1. REQUEST NO. 19EG3020Q0023	2. DATE ISSUED 09/10/2020	3. REQUISITION/PURCHASE REQUEST NO. PR9397134	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING
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5a. ISSUED BY AMERICAN EMBASSY CAIRO US EMBASSY CAIRO 8 KAMAL EL DIN SALAH, ATTN: PROCUREMENT/CONTRACTING OFFICE CAIRO 11519 EGYPT	6. DELIVER BY (Date) 09/23/2020
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5b. FOR INFORMATION CALL (NO COLLECT CALLS)		7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule)
NAME Tamer Daoud	TELEPHONE NUMBER	9. DESTINATION
	AREA CODE NUMBER	a. NAME OF CONSIGNEE AMERICAN EMBASSY CAIRO

8. TO:		b. STREET ADDRESS US EMBASSY CAIRO 8 KAMAL EL DIN SALAH, ATTN: SPM RECEIVING OFFICE
a. NAME	b. COMPANY	c. CITY CAIRO
c. STREET ADDRESS	d. STATE	e. ZIP CODE 11519
d. CITY	f. ZIP CODE	

10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date)
09/23/2020

IMPORTANT: This is a request for information and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or service. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotation must be completed by the quoter.

11. SCHEDULE (Include applicable Federal, State and local taxes)

ITEM NO. (a)	SUPPLIES/ SERVICES (b)	QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)

12. DISCOUNT FOR PROMPT PAYMENT	a. 10 CALENDAR DAYS (%)	b. 20 CALENDAR DAYS (%)	c. 30 CALENDAR DAYS (%)	d. CALENDAR DAYS
				NUMBER PERCENTAGE

NOTE: Additional provisions and representations are are not attached.

13. NAME AND ADDRESS OF QUOTER		14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION	15. DATE OF QUOTATION
a. NAME OF QUOTER			
b. STREET ADDRESS		16. SIGNER	
c. COUNTY		a. NAME (Type or print)	b. TELEPHONE
d. CITY		AREA CODE	
e. STATE	f. ZIP CODE	c. TITLE (Type or print)	NUMBER

REQUEST FOR QUOTATIONS - CONSTRUCTION

A. PRICE

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

Total Price (including all labor, materials, overhead and profit)	EGP
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A.1 VALUE ADDED TAX

The Government will not reimburse the Contractor for VAT under this contract. The Contractor shall not include a line for VAT on Invoices as the U.S. Embassy has a tax exemption certificate with the host government.

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

N/A

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).

E. DELIVERIES OR PERFORMANCE

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

The Contractor shall be required to:

- (a) commence work under this contract within 10 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 45 days after the door's delivery on site.

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

52.211-12 LIQUIDATED DAMAGES - CONSTRUCTION (SEPT 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 **50 USD** for each calendar day of delay until the work is completed or accepted.

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

CONTRACTOR'S SUBMISSION OF CONSTRUCTION SCHEDULES

(a) The time for submission of the schedules referenced in FAR 52.236-15, "Schedules for Construction Contracts", paragraph (a), is hereby modified to reflect the due date for submission as " **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 during Sunday through Thursday from 08:00 am to 16:00. 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.

The Department of State observes the following days* as holidays:

New Year's Day	American	Wednesday	January 1
Coptic Christmas	Egyptian	Tuesday	January 7
Martin Luther King's Birthday	American	Sunday	January 19
Revolution/Police Day*	Egyptian	Saturday	January 25
Washington's Birthday	American	Sunday	February 16
Sham El Nessim	Egyptian	Monday	April 20
Sinai Liberation Day*	Egyptian	Saturday	April 25
Egyptian Labor Day*	Egyptian	Friday	May 1
Memorial Day	American	Sunday	May 24
Eid El Fitr**	Egyptian	Sun/Mon	May 24/25
June 30 Revolution	Egyptian	Tuesday	June 30
Independence Day	American	Sunday	July 5
National Day	Egyptian	Thursday	July 23
Eid Al Adha**	Egyptian	Thurs/Fri/Sat	July 30-Aug 1
Islamic New Year**	Egyptian	Thursday	August 20
Labor Day	American	Sunday	September 6
Armed Forces Day	Egyptian	Tuesday	October 6
Columbus Day	American	Sunday	October 11
Moulid El Nabi**	Egyptian	Thursday	October 29
Veteran's Day	American	Wednesday	November 11
Thanksgiving Day	American	Thursday	November 26
Christmas Day	American	Thursday	December 24

PRECONSTRUCTION CONFERENCE

A preconstruction conference will be held 10 days after contract award at **US Embassy** to discuss the schedule, submittals, notice to proceed, mobilization and other important issues that effect construction progress. See FAR 52.236-26, Preconstruction Conference.

DELIVERABLES - The following items shall be delivered under this contract:			
<u>Description</u>	<u>Quantity</u>	<u>Deliver Date</u>	<u>Deliver To</u>
Section G. Securities/Insurance	1	10 days after award	CO
Section E. Construction Schedule	1	10 days after award	COR
Section E. Preconstruction Conference	1	10 days after award	COR
Section G. Personnel Biographies	1	10 days after award	COR
Section F. Payment Request	1	Last calendar day of each month	COR
Section D. Request for Substantial Completion	1	15 days before inspection	COR
Section D. Request for Final Acceptance	1	5 days before inspection	COR

F. ADMINISTRATIVE DATA

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

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

(b) The COR for this contract is **Engineer Inspector, Eng. Mira Mesdary**

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.

G. SPECIAL REQUIREMENTS

G.1.0 PERFORMANCE/PAYMENT PROTECTION - The Contractor shall furnish some form of payment protection as described in 52.228-13 in the amount of 50% of the contract price.

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

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

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

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

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

(1) BODILY INJURY, ON OR OFF THE SITE, IN U.S. DOLLARS	
Per Occurrence	\$5,000.00
Cumulative	\$15,000.00
(2) PROPERTY DAMAGE, ON OR OFF THE SITE, IN U.S. DOLLARS	
Per Occurrence	\$ 10,000
Cumulative	\$ 20,000

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

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

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

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

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

G.3.0 DOCUMENT DESCRIPTIONS

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

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

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

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

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

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

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

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

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

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

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

G.5.2 After award, the Contractor has ten calendar days to submit to the Contracting Officer a list of workers and supervisors assigned to this project for the Government to conduct all necessary security checks. It is anticipated that security checks will take 30 days to perform. For each individual the list shall include:

- Full Name
- Place and Date of Birth
- Current Address
- National Identification number
- Fingerprint Card
- Participation in a personal interview with Embassy security staff

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

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

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

G.7.0 SPECIAL WARRANTIES

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

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

G.8.0 EQUITABLE ADJUSTMENTS

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

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

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

G.9.0 ZONING APPROVALS AND PERMITS

The Government shall be responsible for:

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

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

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

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

<u>CLAUSE</u>	<u>TITLE AND DATE</u>
52.202-1	DEFINITIONS (JUN 2020)
52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011)
52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (OCT 2018)
52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (OCT 2018)
52.204-18	COMMERCIAL AND GOVERNMENT ENTITY CODE MAINTENANCE (JUL 2016)
52.204-19	INCORPORATION BY REFERENCE OF REPRESENTATIONS AND CERTIFICATIONS (DEC 2014)
52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED OR PROPOSED FOR DEBARMENT (JUN 2020)
52.209-9	UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS (JUL 2013)
52.213-4	TERMS AND CONDITIONS-SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (JUN 2020)
52.216-7	ALLOWABLE COST AND PAYMENT (JUN 2013)

- 52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)
- 52.222-19 CHILD LABOR – COOPERATION WITH AUTHORITIES AND REMEDIES (JAN 2018)
- 52.222-50 COMBATING TRAFFICKING IN PERSONS (FEB 2009)
- 52.223-18 ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (JUN 2020)
- 52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUNE 2008)
- 52.225-14 INCONSISTENCY BETWEEN ENGLISH VERSION AND TRANSLATION OF CONTRACT (FEB 2000)
- 52.225-19 CONTRACTOR PERSONNEL IN A DESIGNATED OPERATIONAL AREA OR SUPPORTING A DIPLOMATIC MISSION OUTSIDE THE UNITED STATES (MAR 2008)
- 52.228-3 Workers' Compensation Insurance (Defense Base Act) JUL 2014
- 52.228-5 INSURANCE - WORK ON A GOVERNMENT INSTALLATION (JAN 1997)
- 52.228-11 PLEDGES OF ASSETS (JAN 2012)
- 52.228-13 ALTERNATIVE PAYMENT PROTECTION (JULY 2000)
- 52.228-14 IRREVOCABLE LETTER OF CREDIT (NOV 2014)
- 52.228-15 PERFORMANCE AND PAYMENT BONDS-CONSTRUCTION (JUN 2020)
- 52.229-6 TAXES - FOREIGN FIXED-PRICE CONTRACTS (FEB 2013)
- 52.229-7 TAXES- FIXED PRICE CONTRACTS WITH FOREIGN GOVERNMENTS (FEB 2013)
- 52.232-5 PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS (MAY 2014)
- 52.232-8 DISCOUNTS FOR PROMPT PAYMENT (FEB 2002)
- 52.232-11 EXTRAS (APR 1984)
- 52.232-18 AVAILABILITY OF FUNDS (APR 1984)

- 52.232-22 LIMITATION OF FUNDS (APR 1984)
- 52.232-25 PROMPT PAYMENT (JULY 2013)
- 52.232-27 PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (MAY 2014)
- 52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER - SYSTEM FOR AWARD
MANAGEMENT (OCT 2018)
- 52.232-34 PAYMENT BY ELECTRONIC FUNDS TRANSFER – OTHER THAN
SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
- 52.233-1 DISPUTES (MAY 2014) *Alternate I (DEC 1991)*
- 52.233-3 PROTEST AFTER AWARD (AUG 1996)
- 52.236-2 DIFFERING SITE CONDITIONS (APR 1984)
- 52.236-3 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK
(APR 1984)
- 52.236-5 MATERIAL AND WORKMANSHIP (APR 1984)
- 52.236-6 SUPERINTENDENCE BY THE CONTRACTOR (APR 1984)
- 52.236-7 PERMITS AND RESPONSIBILITIES (NOV 1991)
- 52.236-8 OTHER CONTRACTS (APR 1984)
- 52.236-9 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT,
UTILITIES, AND IMPROVEMENTS (APR 1984)
- 52.236-10 OPERATIONS AND STORAGE AREAS (APR 1984)
- 52.236-11 USE AND POSSESSION PRIOR TO COMPLETION (APR 1984)
- 52.236-12 CLEANING UP (APR 1984)
- 52.236-13 ACCIDENT PREVENTION (NOV 1991)
- 52.236-14 AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984)
- 52.236-15 SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)
- 52.236-21 SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FEB 1997)

- 52.236-26 PRECONSTRUCTION CONFERENCE (FEB 1995)
- 52.242-14 SUSPENSION OF WORK (APR 1984)
- 52.243-4 CHANGES (JUN 2007)
- 52.243-5 CHANGES AND CHANGED CONDITIONS (APR 1984)
- 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (JUN 2020)
- 52.245-2 GOVERNMENT PROPERTY INSTALLATION OPERATION SERVICES (APR 2012)
- 52.245-9 USE AND CHARGES (APR 2012)
- 52.246-12 INSPECTION OF CONSTRUCTION (AUG 1996)
- 52.246-17 WARRANTY OF SUPPLIES OF A NONCOMPLEX NATURE (JUN 2003)
- 52.246-21 WARRANTY OF CONSTRUCTION (MAR 1994)
- 52.246-26 REPORTING NONCONFORMING ITEMS (DEC 2019)
- 52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (APR 2012) *Alternate I (SEPT 1996)*
- 52.249-10 DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984)
- 52.249-14 EXCUSABLE DELAYS (APR 1984)

I. FAR CLAUSES INCORPORATED IN FULL TEXT

52.204-25 PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2020)

(a) Definitions. As used in this clause—

Covered foreign country means The People’s Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) Prohibition. Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in Federal Acquisition Regulation 4.2104.

(c) Exceptions. This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) Reporting requirement.

(1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

(i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) Subcontracts. The Contractor shall insert the substance of this clause, including this paragraph (e), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

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

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

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

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

(End of clause)

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

Regulations at 22 CFR Part 136 require that U.S. Government employees and their families do not profit personally from sales or other transactions with persons who are not themselves entitled to exemption from import restrictions, duties, or taxes. Should the Contractor experience importation or tax privileges in a foreign country because of its contractual relationship to the United States Government, the Contractor shall observe the requirements of 22 CFR Part 136 and all policies, rules, and procedures issued by the chief of mission in that foreign country.

(End of clause)

CONTRACTOR IDENTIFICATION (JULY 2008)

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

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

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

(End of clause)

652.236-70 ADDITIONAL SAFETY MEASURES (OCT 2017)

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

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

- (1) Scaffolding;
- (2) Work at heights above 1.8 meters;

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

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

(5) Cranes and rigging;

(6) Welding or cutting and other hot work;

(7) Partial or total demolition of a structure;

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

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

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

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

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

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

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

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

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

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

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

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

(End of clause)

652.242-73 AUTHORIZATION AND PERFORMANCE (AUG 1999)

(a) The Contractor warrants the following:

(1) That 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.

(End of clause)

652.243-70 NOTICES (AUG 1999)

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

(End of clause)

I. LIST OF ATTACHMENTS

ATTACHMENT NUMBER	DESCRIPTION OF ATTACHMENT	NUMBER OF PAGES
Attachment 1	Breakdown of Price by Divisions of Specifications	1
Attachment 2	Drawings	1
Attachment 3	Specifications	1

J. QUOTATION INFORMATION

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

A. QUALIFICATIONS OF OFFERORS

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

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

B. SUBMISSION OF QUOTATIONS

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

Each quotation must consist of the following:		
VOLUME	TITLE	NUMBER OF COPIES*
I	Standard Form 18 including a completed Attachment 4, "BREAKDOWN OF PROPOSAL PRICE BY DIVISIONS OF SPECIFICATIONS	1
II	Performance schedule in the form of a "bar chart" and Business Management/Technical Proposal	1

Submit the complete quotation to the address indicated. If mailed, on Standard Form 18, or if hand-delivered, use the address set forth below:

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

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

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

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

Proposed Work Information - Provide the following:

- (1) A list of the names, addresses and telephone numbers of the owners, partners, and principal officers of the Offeror;
- (2) The name and address of the Offeror's field superintendent for this project;
- (3) A list of the names, addresses, and telephone numbers of subcontractors and principal materials suppliers to be used on the project, indicating what portions of the work will be performed by them; and,

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

- (1) Customer's name, address, and telephone numbers of customer's lead contract and technical personnel;
- (2) Contract number and type;
- (3) Date of the contract award place(s) of performance, and completion dates; Contract dollar value;
- (4) Brief description of the work, including responsibilities; and
- (5) Any litigation currently in process or occurring within last 5 years.

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

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

(b) A site visit has been scheduled for **9-17-2020 – 10:00 AM**

(c) Participants will meet at **Maadi House – Villa 21 Rd 19, Maadi.**

D. MAGNITUDE OF CONSTRUCTION PROJECT

It is anticipated that the range in price of this contract will be: 31,000 USD

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

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

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

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

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

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

<u>PROVISION</u>	<u>TITLE AND DATE</u>
52.204-7	SYSTEM FOR AWARD MANAGEMENT (OCT 2018)
52.204-16	COMMERCIAL AND GOVERNMENT ENTITY CODE REPORTING (JUL 2016)
52.214-34	SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE (APR 1991)
52.215-1	INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (JAN 2004)

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

(c) otherwise due under the contract.

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

(e) Taxpayer Identification Number (TIN).

TIN: _____

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

(e) Type of Organization.

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

- Foreign Government;
- 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 FAR 52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (MAR 2020)

(a) (1) The North American Industry Classification System (NAICS) code for this acquisition is 236118, 236220, 237110, 237310, 237990.

(2) The small business size standard is **\$36.5 Million USD**.

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

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

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

(i) Paragraph (d) applies.

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

(c)

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

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

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

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

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

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

(B) Exceed the simplified acquisition threshold; and

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

(vi) [52.204-26](#), Covered Telecommunications Equipment or Services-Representation. This provision applies to all solicitations.

(vii) [52.209-2](#), Prohibition on Contracting with Inverted Domestic Corporations-Representation.

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

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

(x) [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.

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

(xii) [52.219-1](#), Small Business Program Representations (Basic, Alternates I, and II). 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.

(C) The provision with its Alternate II applies to solicitations that will result in a multiple-award contract with more than one NAICS code assigned.

(xiii) [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.

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

(xv) [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.

(xvi) [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.

(xvii) [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.

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

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

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

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

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

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

(C) If the acquisition value is \$50,000 or more but is less than \$83,099, the provision with its Alternate II applies.

(D) If the acquisition value is \$83,099 or more but is less than \$100,000, the provision with its Alternate III applies.

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

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

(xxiv) [52.225-25](#), Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-Representation and Certifications. This provision applies to all solicitations.

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

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

[Contracting Officer check as appropriate.]

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

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

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

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

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

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

___ (vii) [52.227-6](#), Royalty Information.

___ (A) Basic.

___ (B) Alternate I.

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

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

FAR Clause #	Title	Date	Change

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

(End of provision)

L.3 52.204-24 REPRESENTATION REGARDING CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2020)

The Offeror shall not complete the representation at paragraph (d)(1) of this provision if the Offeror has represented that it “does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument” in the provision at [52.204-26](#), Covered Telecommunications Equipment or Services—Representation, or in paragraph (v) of the provision at [52.212-3](#), Offeror Representations and Certifications-Commercial Items.

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

Backhaul, covered telecommunications equipment or services, critical technology, interconnection arrangements, reasonable inquiry, roaming, and substantial or essential component have the meanings provided in the clause [52.204-25](#), Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

(b) *Prohibition.*

(1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract or extending or renewing a contract with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(c) *Procedures.* The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (<https://www.sam.gov>) for entities excluded from receiving federal awards for “covered telecommunications equipment or services”.

(d) *Representation.* The Offeror represents that—

(1) It will, will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation. The Offeror shall provide the additional disclosure information required at paragraph (e)(1) of this section if the Offeror responds “will” in paragraph (d)(1) of this section; and

(2) After conducting a reasonable inquiry, for purposes of this representation, the Offeror represents that—

It does, does not use covered telecommunications equipment or services, or use any equipment, system, or service that uses covered telecommunications equipment or services. The Offeror shall provide the additional disclosure information required at paragraph (e)(2) of this section if the Offeror responds “does” in paragraph (d)(2) of this section.

(e) *Disclosures.*

(1) Disclosure for the representation in paragraph (d)(1) of this provision. If the Offeror has responded “will” in the representation in paragraph (d)(1) of this provision, the Offeror shall provide the following information as part of the offer:

(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the original equipment manufacturer (OEM) or a distributor, if known);

(B) A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C) Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(ii) For covered services—

(A) If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B) If not associated with maintenance, the Product Service Code (PSC) of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(2) Disclosure for the representation in paragraph (d)(2) of this provision. If the Offeror has responded “does” in the representation in paragraph (d)(2) of this provision, the Offeror shall provide the following information as part of the offer:

(i) For covered equipment—

(A)The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known);

(B)A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C)Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

(ii)For covered services—

(A)If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B)If not associated with maintenance, the PSC of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

(End of provision)

L.4. 52.209-2 PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS REPRESENTATION (NOV 2015)

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

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

(c) Representation. The Offeror represents that.

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

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

(End of provision)

L.5. 52.225-18 PLACE OF MANUFACTURE (SEPT 2006)

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

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

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

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

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

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

(End of provision)

L.6 AUTHORIZED CONTRACTOR ADMINISTRATOR

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

Name:
Telephone Number:
Address:

L.7 52.225-20 PROHIBITION ON CONDUCTING RESTRICTED BUSINESS OPERATIONS IN SUDAN – CERTIFICATION (AUG 2009)

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

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

“Marginalized populations of Sudan” means—

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

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

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

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

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

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

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

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

(6) Have been voluntarily suspended.

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

(End of provision)



United States Department of State
OFFICE OF OVERSEAS BUILDINGS OPERATIONS
Washington, D.C.

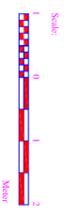
**MAADI
SAFE AREA
CAIRO – EGYPT**

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--- BOUNDARIES OF SAFE AREA

▣ OUTDOOR TERRAZZO TILES

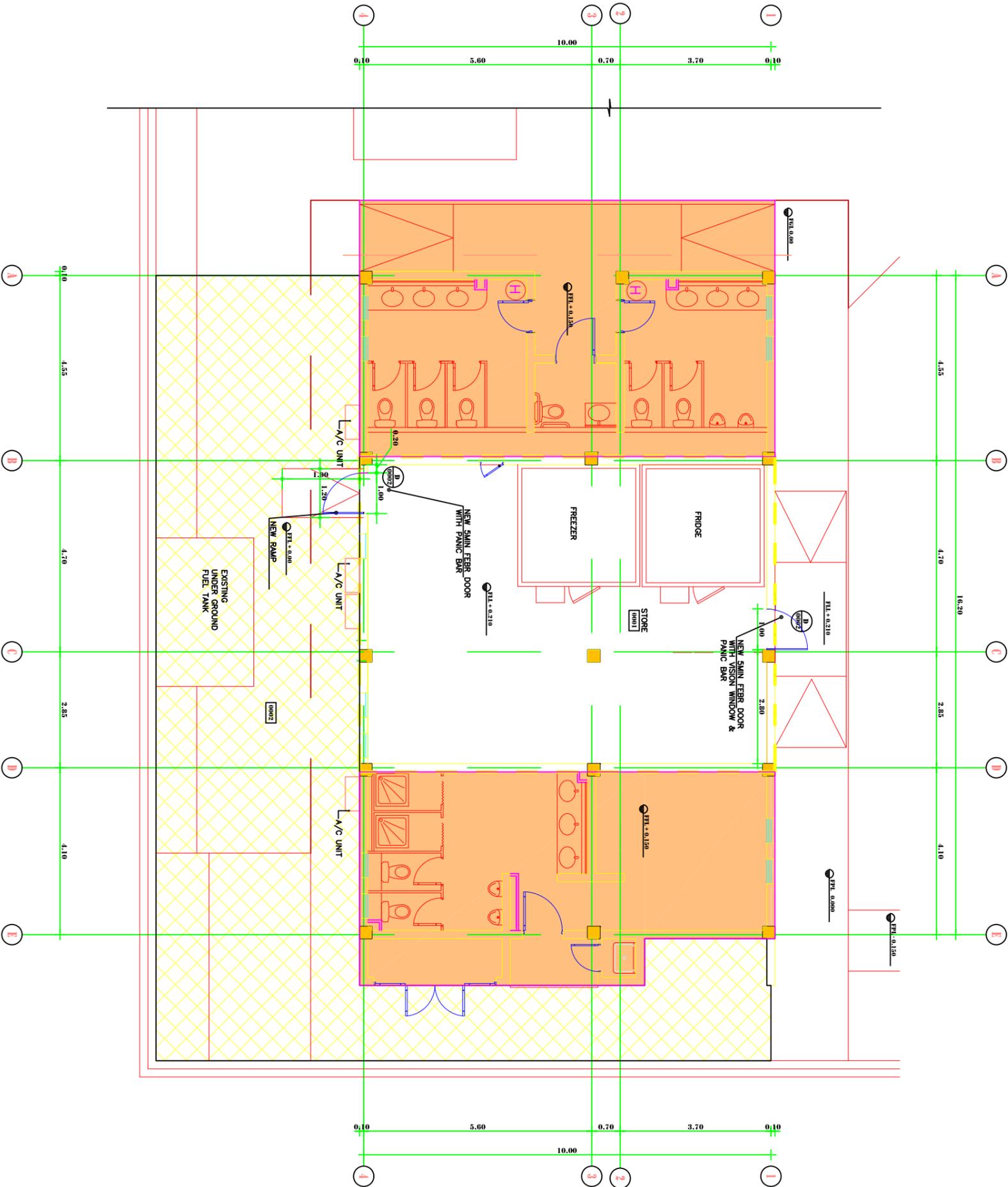
Revisions	



**STORAGE BUILDING ANNEX
MAADI HOUSE**

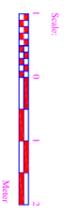
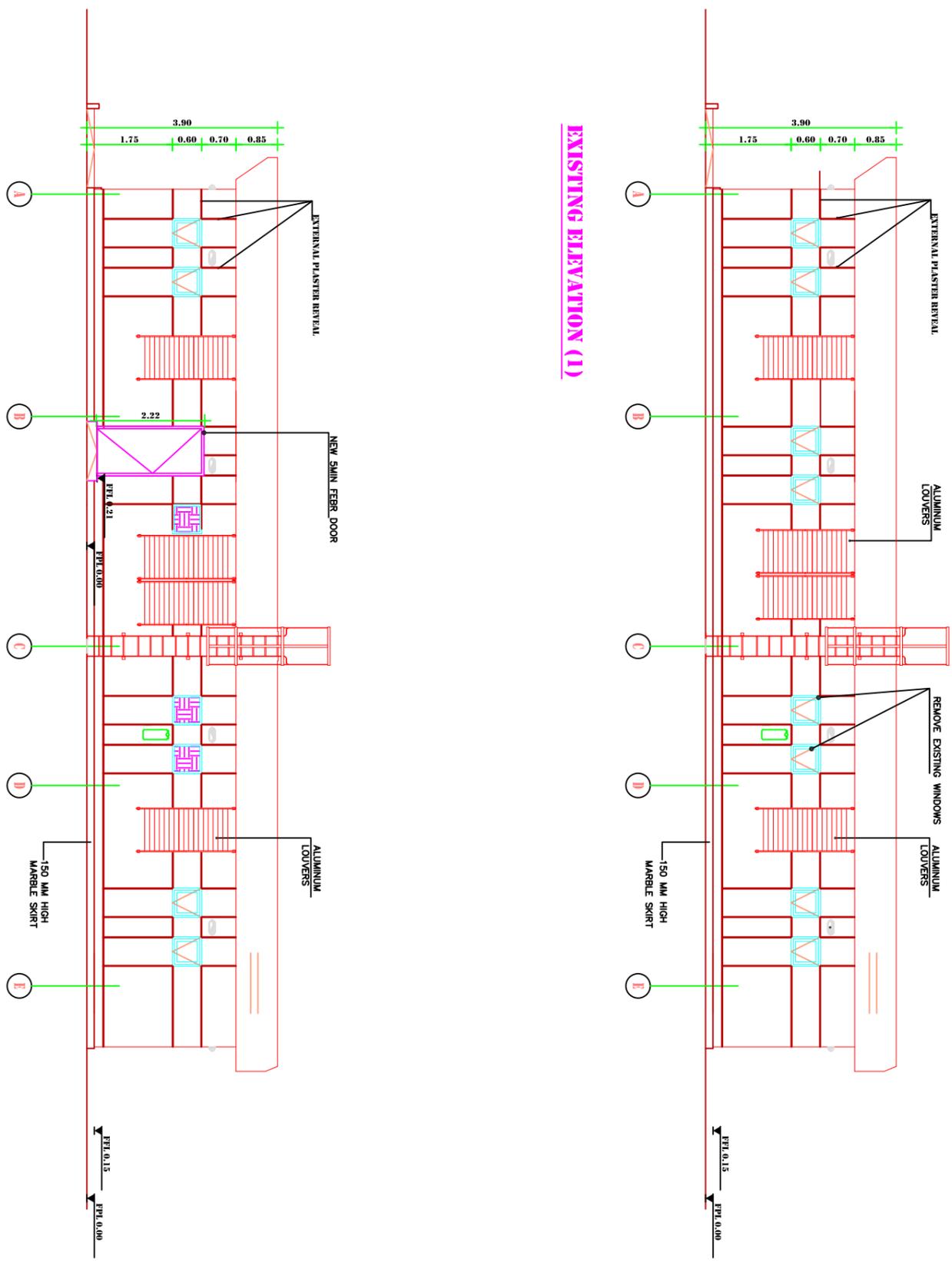
NEW WORK

Drawing Title	
Date	Sheet Number
AUG. 2020	
Drawn By	ENG. MIRA MESDARY
Checked By	ENG. HALA KALDAS
Drawing Scale	TO FIT
Classification	SBU
A02	



**MAADI
SAFE AREA
CAIRO – EGYPT**

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Washington, D.C. 20300



**STORAGE BUILDING ANNEX
MAADI HOUSE**

EXTERNAL ELEVATIONS

Drawing Title	
Date	Sheet Number
AUG. 2020	
Drawn By	ENG. MIRA MESSADRY
Checked By	ENG. HALA KALDAS
Drawing Scale	TO FIT
Classification	A03
SBU	

Maadi House Safe Area						
Div/Spec. No.		Description	Unit	Qty	Unit Rates	Total
					EGP	EGP
DIVISION 1 GENERAL REQUIREMENTS						
015000 TEMPORARY FACILITIES & CONTROLS						
	1	Mobilization	l.s	1		
013525 CONSTRUCTION SAFETY & OCCUPATIONAL HEALTH						
	1	Compliance with EM385-1-1	l.s	1		
DIVISION 2 EXISTING CONDITIONS						
024119 SELECTIVE DEMOLITION						
		<i>Demolishing; removing and dismantling of the existing elements required for the new design as follows:</i>				
	1	Dismantle Exiting Door indicated on DWG. A01	ea	2		
	3	Demolish the masonry wall of thickness 25 cm. for door opening	m2	2.5		
DIVISION 3 CONCRETE						
033000 Cast In Place Concrete						
		<i>Plain Concrete; cast on site, or ready mix, ordinary Portland cement; including formwork</i>				
	1	New concrete frame around the 2 FE/BR doors as specified by approved FE/BR door Manufactural	LS	1		
	2	Execute a concrete landing and ramp for level difference (22 cm.) at Door # D001	LS	1		
DIVISION 4 CONCRETE UNIT MASONRY						
042200 UNIT MASONRY						
	1	Reinforced CMU walls	m3	2		

Div/Spec. No.	Description	Unit	Qty	Unit Rates		Total
				EGP	EGP	
DIVISION 8 OPENINGS						
083180	FORCED ENTRY (FE) / BALLISTIC RESISTANT (BR) DOOR AND WINDOW ASSEMBLIES					
1	5 min FE/BR door 100cm width, 210cm Height for safe area with vision window & Manual Panic Bar. UniCAM lock opening to be opened by Manufactural (Government Furnished)	ea	2			
DIVISION 9 FINISHES						
092400	Cement Plastering					
	<i>Portland cement plaster; plain finish; including metal angle beads, stop beads; metal lathing; accessories for fittings; to</i>					
1	Interior walls	m2	2			
2	Exterior walls	m2	2			
099100	Painting					
	<i>Exterior painting, resistant to UV without color fading, Sibes or approved equal for preparation and Jotashield of Juton, or equal approved for paint</i>					
1	Exterior Walls	m2	15			
	<i>Interior painting, acrylic emulsion paint washable; to concrete, masonry, render and plaster, Fenomastic of Jotun, or equal approved</i>					
2	Interior Walls	m2	15			
<u>Total Cost, EGP</u>						<u>EGP 0.0</u>
<u>Total Cost, USD</u>						<u>\$0.0</u>

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

1. Project information.
2. Existing Conditions
3. Work covered by Contract Documents.
4. Construction phases.
5. Access to site.
6. Work restrictions
7. Government Furnished Items.
8. Salvaged items

1.2 PROJECT INFORMATION

A. Project Identification: **MAADI HOUSE Safe Haven**

1. Project Location: Work is required at the US. Government Embassy Warehouse building at MAADI HOUSE.
2. The MAADI HOUSE is located at Maadi, Cairo, Egypt, and the work is included at the annex warehouse building to create a safe area.
3. Work under this contract is to provide FEBR doors at the warehouse building to create a safe area.

1.3 EXISTING CONDITIONS

- ##### A.
- The warehouse building where the Safe area will be created is a Reinforced concrete skeleton with reinforced CMU blocks.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- ##### A.
- Project design approach: The design is based on the basic definition of a Safe area to provide a 5-minutes FEBR doors at two sides of the building where occupants of the Maadi House can seek shelter from forced entry or ballistic attack for a duration of 5-minutes;
- ##### B.
- Work on this contract includes the replacement of one double leaves wooden doors by a 5-minutes FEBR door and provide a new opening at the exterior wall of the building to provide a new 5-minutes FEBR door as a second exit to the safe area.
-

- C. Type of Award: Project will be constructed under one Lump sum contract based on breakdown of prices.

1.5 CONSTRUCTION PHASES

- A. Construction will be executed in one phase.

1.6 ACCESS TO SITE

- A. General: Contractor shall comply with all restrictions and regulations of working inside the MAADI HOUSE Compound to include security, access control, escort policy, and site logistics.
- B. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a good condition throughout construction period. Repair damage caused by construction operations.

1.7 PROJECT SITE HOURS OF OPERATIONS

- A. Unless otherwise agreed upon in writing, work shall be performed only during the days and hours specified below.
 - 1. The Contractor shall plan execution of the work based on a 5-day workweek Sunday thru Thursday excluding holidays.
 - 2. Working hours shall be 8:00 to 17:00.
- B. Holidays - The Contractor shall observe, validate, and plan the work around local national holidays and American Holidays during the construction period.

1.8 WORK RESTRICTIONS

- A. Work Restrictions, General: Work shall be conducted while the Compound is in full operation, Comply with restrictions on construction operations as scheduled, coordinated and approved by the COR.
- B. Existing Utility Interruptions: Do not interrupt utilities serving facilities unless permitted by the COR. Notify the COR not less than two work days in advance of proposed utility interruptions.
- C. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and or other disruption to the adjacent occupied and functional spaces with the COR.

- D. The contractor shall be responsible to cover the fire detectors during periods of dusty work and shall not leave the detectors covered during other non-dusty work activities.
- E. It is the contractor responsibility to secure their tools and materials inside lockable boxes as located and directed by the project COR.

1.8 GOVERNMENT FURNISHED ITEMS (N/A)

1.9 SALVAGED ITEMS

- A. Nothing is required for salvage.

1.10 Applicable Codes and Standards:

The following codes and standards will be applicable to the design of the project:

- 2015 International Code Counsel family of codes including:
 - o International Building Code
 - o International Fire Code
 - o International mechanical Code
 - o International Plumbing Code
- 2016 Code supplements including
 - o OBO building Code
 - o OBO Fire Code
 - o OBO mechanical Code
 - o OBO Electrical Code
- OBO 2016 design standards
- American National Standard Institute (ANSI)
- Underwriters Laboratories (UL) Approved.
- National Electric Manufacturers Association (NEMA)
- SMACNA for duct sizing and calculation.
- ASHRAE for fundamental load calculation.
- NPC National Plumbing Code

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- B. Related Requirements:
 - 1. Section 013200 "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.

1.2 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require COR's responsive action.
- B. Informational Submittals: Written and graphic information and physical samples that do not require COR's responsive action. Submittals may be rejected for not complying with requirements.

1.3 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by COR' and additional time for handling and reviewing submittals required by those corrections.

1.4 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Electronic copies of digital data files of the Contract Drawings may be provided for Contractor's use in preparing submittals.
 - B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on COR's receipt of submittal. No extension
-

of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

1. Initial Review: Allow **10** days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. COR will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Resubmittal Review: Allow 10 days for review of each resubmittal.
- D. Paper Submittals: Place a permanent label or title block on each submittal item for identification.
- E. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
 2. Name file with submittal number or other unique identifier, including revision identifier.
- F. Options: Identify options requiring selection by COR.
- G. Deviations: Identify deviations from the Contract Documents on submittals.
- H. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
- I. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from COR's action stamp.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements:
1. Submit electronic submittals via email as PDF electronic files.
 - a. COR will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
 2. Action Submittals: Submit two paper copies of each submittal unless otherwise indicated. COR will return one copy.

3. Informational Submittals: Submit one paper copy of each submittal unless otherwise indicated. COR will not return copies.
 4. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - a. Provide a notarized statement on original paper copy for the local permit.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
 2. Mark each copy of each submittal to show which products and options are applicable.
 3. Include the following information, as applicable:
 4. Submit Product Data before or concurrent with Samples.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
 2. Submit Shop Drawings in the following format:
 - a. **Two** opaque (bond) copies of each submittal. COR will return **one** copy.
- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 2. Identification: Attach label on unexposed side of Samples that includes the following:

- a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of applicable Specification Section.
3. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 4. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
- E. Contractor's Construction Schedule: Comply with requirements specified in Section 013200 "Construction Progress Documentation."
 - F. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 014000 "Quality Requirements."
 - G. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017700 "Closeout Procedures."
 - H. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
 - I. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to COR.
 - B. Project Closeout: See requirements in Section 017700 "Closeout Procedures.", COR's ACTION
 - C. General: COR will not review submittals that do not bear Contractor's approval stamp and will return them without action.
-

- D. Action Submittals: COR will review each submittal, make marks to indicate corrections or revisions required, and return it. COR will stamp each submittal with an action stamp.
- E. Informational Submittals: COR will review each submittal and will not return it, or will return it if it does not comply with requirements..
- F. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- G. Submittals not required by the Contract Documents may not be reviewed and may be discarded.
- H. The contractors shall submit, **as part of their bid:**
 - 1. Qualification Data: For the contractor to demonstrate their capabilities and experience in similar projects in type and scale. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.
 - 2. Qualification data for the project manager and site engineer.
 - 3. The preliminary project schedule.
 - 4. Special work procedures
 - 5. Quality Control and Assurance program and plan
 - 6. Safety Program and plan.
 - 7. Technical data, manufacturer's catalog cuts and details for:
 - a. FE/BR doors and windows
 - b. Paint materials
 - c. Electric and communication materials manufacturer's catalog (rough-in and finish)
 - 8. List of all suppliers and sub-contractors
- I. The contractor shall submit **after contract award** submittals as included in specification sections

END OF SECTION 013300

SECTION 033000 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Design Mixtures: For each concrete mixture.
- C. Steel Reinforcement Shop Drawings: Placing Drawings that detail fabrication, bending, and placement.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed concrete work similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- B. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.
- C. Source Limitations: Obtain each type of cement of the same brand from the same manufacturer's plant, each aggregate from one source, and each admixture from the same manufacturer.
- D. Comply with ACI 301, "Specification for Structural Concrete," unless modified by the requirements of the Contract Documents.

1.4 TESTING

- A. Preconstruction Testing Service: Engage a qualified testing agency to perform preconstruction testing on concrete mixtures.

1.5 FIELD CONDITIONS

- A. Hot-Weather Placement: Comply with **ACI 301 (ACI 301M)**.

PART 2 - PRODUCTS

2.1 CONCRETE, GENERAL

- A. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
 - 1. **ACI 301 (ACI 301M)**.
 - 2. **ACI 117 (ACI 117M)**.

2.2 FORM-FACING MATERIALS

- A. Smooth-Formed Finished Concrete: Form-facing panels that provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.
- B. Rough-Formed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.

2.3 STEEL REINFORCEMENT

- A. Reinforcing Bars: ASTM A 615/A 615M-14, **(Grade 420)**, or ASTM A 706/A 706M-14 **(Grade 420)** deformed.
- B. Plain-Steel Welded-Wire Reinforcement: ASTM A 1064/A 1064M, plain, fabricated from as-drawn steel wire into flat sheets.
- C. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded-wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice."

2.4 CONCRETE MATERIALS

- A. Portland Cement: ASTM C 150, Type I.
- B. Normal-Weight Aggregate: ASTM C 33, uniformly graded, not exceeding **(38-mm)** nominal size.

- C. Lightweight Aggregate: ASTM C 330.
- D. Water: Potable and complying with ASTM C 94.
- E. Synthetic Fiber: Fibrillated or monofilament polypropylene fibers engineered and designed for use in concrete, complying with ASTM C 1116, Type III, (13 to 38 mm) long.
- F. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures and that do not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
 - 1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
- G. Water: ASTM C 94/C 94M [**and potable**].

2.5 VAPOR RETARDERS

- A. Sheet Vapor Retarder: Polyethylene sheet, ASTM D 4397, not less than 10 mils (0.25 mm) thick.

2.6 CURING MATERIALS

- A. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
- B. Water: Potable.

2.7 RELATED MATERIALS

- A. Expansion- and Isolation-Joint-Filler Strips: [**ASTM D 1751, asphalt-saturated cellulosic fiber**].

2.8 CONCRETE MIXTURES FOR BUILDING ELEMENTS

- A. Comply with ACI 301 requirements for concrete mixtures.
- B. Prepare design mixes, proportioned according to ACI 301, for normal-weight concrete determined by either laboratory trial mix or field test data bases, as follows:
 - 1. Compressive Strength (28 Days): 300 kg.cm² for reinforced concrete
 - 2. Compressive Strength (28 Days): 250 kg.cm² for plain concrete

3. Slump: (100 mm).

C. Synthetic Fiber: For slab on grade plain concrete, uniformly disperse in concrete mix at manufacturer's recommended rate, but not less than. (0.60 kg/cu. m).

2.9 CONCRETE MIXING

A. Project-Site Mixing: Measure, batch, and mix concrete materials and concrete according to ASTM C 94. Mix concrete materials in appropriate drum-type batch machine mixer.

B. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M[and ASTM C 1116/C 1116M], and furnish batch ticket information.

1. When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.

PART 3 - EXECUTION

3.1 FORMWORK INSTALLATION

A. Design, erect, shore, brace, and maintain formwork, according to ACI 301 (ACI 301M), to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.

B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117 (ACI 117M).

3.2 EMBEDDED ITEM INSTALLATION

A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.3 VAPOR-RETARDER INSTALLATION

A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder according to ASTM E 1643 and manufacturer's written instructions.

1. Lap joints 6 inches (150 mm) and seal with manufacturer's recommended tape.

3.4 STEEL REINFORCEMENT INSTALLATION

- A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
 - 1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

3.5 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections are completed.
- B. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
 - 1. Consolidate placed concrete with mechanical vibrating equipment according to **ACI 301 (ACI 301M)**.

3.6 FINISHING FORMED SURFACES

- A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.

3.7 CONCRETE PROTECTING AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and **ACI 301 (ACI 301M)** for hot-weather protection during curing.
- B. Cure concrete according to ACI 308.1, by keeping surfaces continuously moist for not less than seven days.

3.8 CONCRETE SURFACE REPAIRS

- A. Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.

3.9 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified independent testing and inspecting agency to sample materials, perform tests, and submit test reports during concrete placement according to requirements specified in this Article. Perform tests according to ACI 301.

END OF SECTION 033000

SECTION 042200 - CONCRETE UNIT MASONRY

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Concrete masonry units.
 - 2. Steel reinforcing bars.

1.2 DEFINITIONS

- A. CMU(s): Concrete masonry unit(s).
- B. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals
- C. Shop Drawings: For reinforcing steel. Detail bending, lap lengths, and placement of unit masonry reinforcing bars. Comply with ACI 315.
- D. Samples: For each type of the CMU used.

1.4 QUALITY ASSURANCE

- A. Sample Panels: Build sample panels to verify selections made under Sample submittals and to demonstrate aesthetic effects. Comply with requirements in Section 014000 "Quality Requirements" for mockups.
 - 1. Build sample panels for typical interior wall in sizes according to the architectural drawings.

1.5 FIELD CONDITIONS

- A. Cold-Weather Requirements: Remove and replace unit masonry damaged by wetness conditions. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.
- B. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

PART 2 - PRODUCTS

2.1 UNIT MASONRY, GENERAL

- A. Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6, except as modified by requirements in the Contract Documents.
- B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated. Do not use units where such defects are exposed in the completed Work.
- C. Fire-Resistance Ratings: Comply with requirements for fire-resistance-rated assembly designs indicated.
 - 1. Where fire-resistance-rated construction is indicated, units shall be listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction.

2.2 CONCRETE MASONRY UNITS

- A. Shapes: Provide shapes indicated and as follows, with exposed surfaces matching exposed faces of adjacent units unless otherwise indicated.
 - 1. Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
- B. CMUs: ASTM C 90.
 - 1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength according to the design codes mentioned in the drawings.
 - 2. Density Classification: Normal weight.

2.3 CONCRETE LINTELS

- A. Concrete Lintels: ASTM C 1623, matching CMUs in color, texture, and density classification; and with reinforcing bars indicated. Provide lintels with net-area compressive strength not less than that of CMUs.
- B. Provide lintels of reinforced masonry beams, loose steel angles or precast concrete (contractors option, unless indicated otherwise on architectural drawings) over all openings in masonry walls.

2.4 MORTAR AND GROUT MATERIALS

- A. Portland cement: ASTM C 150/C 150M, Type I or II. Provide natural color or white cement as required to produce mortar color indicated.
- B. Hydrated Lime: ASTM C 207, Type S.
- C. Portland Cement-Lime Mix: Packaged blend of Portland cement and hydrated lime containing no other ingredients.
- D. Masonry Cement: ASTM C 91/C 91M.
- E. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C 979/C 979M. Use only pigments with a record of satisfactory performance in masonry mortar.
- F. Aggregate for Mortar: ASTM C 144.
 - 1. White-Mortar Aggregates: Natural white sand or crushed white stone.
 - 2. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
- G. Aggregate for Grout: ASTM C 404.
- H. Cold-Weather Admixture: Non-chloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.
- I. Water-Repellent Admixture: Liquid water-repellent mortar admixture intended for use with CMUs containing integral water repellent from same manufacturer.
- J. Water: Potable.

2.5 REINFORCEMENT

- A. Refer to structural drawings for all masonry wall reinforcing requirements. Lap splice length for reinforcing bars in masonry construction shall be 50 bar diameters, Uno.

2.6 TIES AND ANCHORS

- A. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:
1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M, with ASTM A 153/A 153M, Class B-2 coating.
 2. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, with ASTM A 153/A 153M, Class B coating.
 3. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
- B. Rigid Anchors: Fabricate from steel bars **1-1/2 inches (38 mm)** wide by **1/4 inch (6.35 mm)** thick by **24 inches (610 mm)** long, with ends turned up **2 inches (51 mm)** or with cross pins unless otherwise indicated.
1. Corrosion Protection: **[Hot-dip galvanized to comply with ASTM A 153/A 153M] [Epoxy coating 0.020 inch (0.51 mm) thick]**.

2.7 MISCELLANEOUS MASONRY ACCESSORIES

- A. Compressible Filler: Pre-molded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from **[neoprene]** .
- B. Preformed Control-Joint Gaskets: Made from **[styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805]** and designed to fit standard sash block and to maintain lateral stability in masonry wall; size and configuration as indicated.
- C. Bond-Breaker Strips: Asphalt-saturated felt complying with ASTM D 226/D 226M, Type I (No. 15 asphalt felt).

2.8 MASONRY-CELL FILL

- A. Loose-Fill Insulation: Perlite complying with ASTM C 549, Type II (surface treated for water repellency and limited moisture absorption) or Type IV (surface treated for water repellency and to limit dust generation).
- B. Lightweight-Aggregate Fill: ASTM C 331/C 331M.

2.9 MORTAR AND GROUT MIXES

- A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.
1. Do not use calcium chloride in mortar or grout.
 2. Use [**Portland cement-lime**] mortar unless otherwise indicated.
 3. For exterior masonry, use [**Portland cement-lime**] mortar.
 4. For reinforced masonry, use [**Portland cement-lime**] mortar.
- B. Mortar for Unit Masonry: Comply with ASTM C 270, [**Proportion**] [**Property**] Specification. Provide the following types of mortar for applications stated unless another type is indicated.
1. For reinforced masonry, use **Type S**.
 2. For interior nonload-bearing partitions, Type O may be used instead of Type N.
- C. Grout for Unit Masonry: Comply with ASTM C 476.
1. Use grout of type indicated or, if not otherwise indicated, of type (fine or coarse) that will comply with TMS 602/ACI 530.1/ASCE 6 for dimensions of grout spaces and pour height.
 2. Proportion grout in accordance with ASTM C 476, [
 3. Provide grout with a slump of [**8 to 11 inches (200 to 280 mm)**] [**10 to 11 inches (250 to 280 mm)**] as measured according to ASTM C 143/C 143M.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.

3.2 TOLERANCES

- A. Dimensions and Locations of Elements:
1. For dimensions in cross section or elevation, do not vary by more than plus **1/2 inch (12 mm)** or minus **1/4 inch (6 mm)**.

2. For location of elements in plan, do not vary from that indicated by more than plus or minus **1/2 inch (12 mm)**.
3. For location of elements in elevation, do not vary from that indicated by more than plus or minus **1/4 inch (6 mm)** in a story height or **1/2 inch (12 mm)** total.

B. Lines and Levels:

1. For bed joints and top surfaces of bearing walls, do not vary from level by more than **1/4 inch in 10 feet (6 mm in 3 m)**, or **1/2-inch (12-mm)** maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than **1/8 inch in 10 feet (3 mm in 3 m)**, **1/4 inch in 20 feet (6 mm in 6 m)**, or **1/2-inch (12-mm)** maximum.
3. For vertical lines and surfaces, do not vary from plumb by more than **1/4 inch in 10 feet (6 mm in 3 m)**, **3/8 inch in 20 feet (9 mm in 6 m)**, or **1/2-inch (12-mm)** maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than **1/8 inch in 10 feet (3 mm in 3 m)**, **1/4 inch in 20 feet (6 mm in 6 m)**, or **1/2-inch (12-mm)** maximum.
5. For lines and surfaces, do not vary from straight by more than **1/4 inch in 10 feet (6 mm in 3 m)**, **3/8 inch in 20 feet (9 mm in 6 m)**, or **1/2-inch (12-mm)** maximum.

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus **1/8 inch (3 mm)**, with a maximum thickness limited to **1/2 inch (12 mm)**.
2. For head and collar joints, do not vary from thickness indicated by more than plus **3/8 inch (9 mm)** or minus **1/4 inch (6 mm)**.
3. For exposed head joints, do not vary from thickness indicated by more than plus or minus **1/8 inch (3 mm)**.

3.3 LAYING MASONRY WALLS

- A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.
- B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less-than-nominal **4-inch (100-mm)** horizontal face dimensions at corners or jambs.
- C. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.

- D. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.
- E. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below, and rod mortar or grout into core.
- F. Fill cores in hollow CMUs with grout **24 inches (600 mm)** under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.

3.4 MORTAR BEDDING AND JOINTING

- A. Lay hollow CMUs as follows:
 - 1. Bed face shells in mortar and make head joints of depth equal to bed joints.
 - 2. Bed webs in mortar in all courses of piers, columns, and pilasters.
 - 3. Bed webs in mortar in grouted masonry, including starting course on footings.
 - 4. Fully bed entire units, including areas under cells, at starting course on footings where cells are not grouted.
- B. Lay solid CMUs with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.
- C. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.
- D. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.

3.5 MASONRY-CELL FILL

- A. Pour [**loose-fill insulation**] [**lightweight-aggregate fill**] into cavities to fill void spaces. Maintain inspection ports to show presence of fill at extremities of each pour area. Close the ports after filling has been confirmed. Limit the fall of fill to one story high, but not more than **20 feet (6 m)**.
- B. Install molded-polystyrene insulation units into masonry unit cells before laying units.

3.6 MASONRY-JOINT REINFORCEMENT

- A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of **5/8 inch (16 mm)** on exterior side of walls, **1/2 inch (13 mm)** elsewhere. Lap reinforcement a minimum of **6 inches (150 mm)**.

1. Space reinforcement not more than **16 inches (406 mm)** o.c.
2. Space reinforcement not more than **8 inches (203 mm)** o.c. in foundation walls and parapet walls.
3. Provide reinforcement not more than **8 inches (203 mm)** above and below wall openings and extending **12 inches (305 mm)** beyond openings **in addition to continuous reinforcement.**

- B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.
- C. Provide continuity at corners by using prefabricated L-shaped units.

3.7 ANCHORING MASONRY TO STRUCTURAL STEEL AND CONCRETE

- A. Anchor masonry to structural steel and concrete, where masonry abuts or faces structural steel or concrete, to comply with the following:
1. Provide an open space not less than [**1/2 inch (13 mm)**] [**1 inch (25 mm)**] [**2 inches (50 mm)**] wide between masonry and structural steel or concrete unless otherwise indicated. Keep open space free of mortar and other rigid materials.
 2. Anchor masonry with anchors embedded in masonry joints and attached to structure.
 3. Space anchors as indicated, but not more than **24 inches (610 mm)** o.c. vertically and **36 inches (915 mm)** o.c. horizontally.
- B. ned edges of CMU cell pans at CMU webs and extend from face shell to face shell.

3.8 REINFORCED UNIT MASONRY INSTALLATION

- A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.
1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
 2. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and that of other loads that may be placed on them during construction.
- B. Placing Reinforcement: Comply with requirements in TMS 602/ACI 530.1/ASCE 6.
- C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.

1. Comply with requirements in TMS 602/ACI 530.1/ASCE 6 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
2. Limit height of vertical grout pours to not more than [**60 inches (1520 mm)**].

3.9 FIELD QUALITY CONTROL

- A. Testing and Inspecting: Owner will engage special inspectors to perform tests and inspections and prepare reports. Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections. Retesting of materials that fail to comply with specified requirements shall be done at Contractor's expense.
- B. Inspections: Special inspections according to Level [**B**] [**C**] in TMS 402/ACI 530/ASCE 5.
 1. Begin masonry construction only after inspectors have verified proportions of site-prepared mortar.
 2. Place grout only after inspectors has verified compliance of grout spaces and of grades, sizes, and locations of reinforcement.
 3. Place grout only after inspectors have verified proportions of site-prepared grout.
- C. Grout Test (Compressive Strength): For each mix provided, according to ASTM C 1019.

3.10 PURGING

- A. Parge exterior faces of below-grade masonry walls, where indicated, in two uniform coats Dampen wall before applying first coat, and scarify first coat to ensure full bond to subsequent coat.
- B. Use a steel-trowel finish to produce a smooth, flat, dense surface with a maximum surface variation of **1/8 inch per foot (3 mm per 300 mm)**. Form a wash at top of purging and a cove at bottom.
- C. Damp-cure purging for at least 24 hours and protect purging until cured.

3.11 REPAIRING, POINTING, AND CLEANING

- A. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
- B. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:

1. Test cleaning methods on sample wall panel; leave one-half of panel un-cleaned for comparison purposes.
2. Clean concrete masonry by applicable cleaning methods indicated in NCMA TEK 8-4A.

3.12 MASONRY WASTE DISPOSAL

- A. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.
- B. Masonry Waste Recycling: Return broken CMUs not used as fill to manufacturer for recycling.
- C. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above or recycled and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION 042200

SECTION 083180 - FORCED ENTRY (FE) / BALLISTIC RESISTANT (BR) ASSEMBLIES

PART 1 - GENERAL

1.1 SUMMARY

- A. The extent of forced-entry resistant (FE) door assembly required for the Project is indicated on Contract Drawings, including construction, profiles, swing, sizes, hardware, accessories, devices, and locations.
- B. Install FE/BR assemblies only into a steel substrate in such a manner that allows for future frame adjustment. This will be a steel sub-frame attached to concrete or masonry.
- C. All security frames with electronic hardware shall have ¾" flexible steel conduit in frame as shown on electric drawing.

1.2 PERFORMANCE REQUIREMENTS

- A. General: Fabricate and install FE/BR assemblies to achieve indicated levels of resistance. Extend resistance to include anchorages, interfaces with adjoining substrates, and hardware.
 - 1. Forced-Entry (FE) resistant assemblies: Where door assembly or window or louver is shown or scheduled as FE, provide manufacturer's material and fabrication for panels, inserts, hardware, devices, and framing of units for the following ratings by the Physical Security Division of the Bureau of Diplomatic Security (DS/PSP/PSD):
 - a. Provide resistance of 5 minutes for forced entry, using basic hand tools.
 - 2. Ballistic resistant (BR) assemblies: Where assembly is shown or scheduled as BR, provide manufacturer's materials and fabrication for panel, inserts, and framing of unit according to DS/PSP/PSD ratings:

1.3 SUBMITTALS

- A. General: For each type of security door and louver assembly, submit the following in accordance with Division 1 Contract Specification Sections:
 - 1. Product data for each element of work, whether purchased from other manufacturers or provided as door Fabricator's standard production. Include data substantiating that products comply with requirements of these specifications.

2. Manufacturer's standard color chart.
3. Certificates:
 - a. Letter from manufacturer indicating the products have been certified by Bureau of Diplomatic Security (DS) and UL in accordance with article on "Manufacturers" in this Section.
 - b. Letter from manufacturer indicating that automatic door operators for handicap compliance have been fully designed by and coordinated with the hardware supplier for the width and weight of each applicable door, that the operator controls and equipment are sized adequately given the location of the control box and its relationship to the door, and is fully compliant with ADA and appropriate fire codes (for doors that are part of the fire egress system).
4. Shop drawings showing each dimensioned detail of each door, window and louver assembly, including performance rating, swing, hardware set, and adjacent construction. Provide drawings on A3 sheets. Show typical door exterior elevations at not less than 1:20 scale. After final modifications and corrections have been incorporated into the drawings, submit drawings as AutoCAD files with .DWG extension. Show the following:
 - a. Cover sheet: Include manufacturer's name, address, telephone, and facsimile numbers; customer and address; project location; contract or purchase order number; and submittal release record.
 - b. Unit information:
 - 1) Manufacturer's model number.
 - 2) Government code.
 - 3) Mark (door no.).
 - 4) Door/frame finish.
 - 5) Door type.
 - 6) Government or ASTM/UL certification number.
 - 7) Government or ASTM/UL certification number for glazing, if different from door certification.
 - 8) Government certification number for deal tray, if different from door certification.
 - c. Elevation Drawings:
 - 1) Rough opening dimensions.
 - 2) Door opening dimensions.
 - 3) Frame opening dimensions.
 - 4) Vision opening dimensions.
 - 5) Substrate/rough opening material.
 - 6) Finished floor.
 - 7) Sill condition.

- 8) Undercut for carpet.
 - 9) Weatherstripping.
 - 10) Manufacturer's name and reference numbers for primer and finish paint, including number of coats applied.
 - 11) Door class (fire) rating: rated or non-rated.
 - 12) Door and frame gauge thickness.
 - 13) Separate steel sub-frames/embeds (number and list).
 - 14) Detail symbols.
 - 15) Hardware and hardware symbols.
 - 16) Electrical access, including terminal strips.
- d. Plan Drawings:
- 1) Relate to elevation on drawing.
 - 2) Identify "Attack" and "Protected" sides.
 - 3) Identify door swing
 - 4) Provide key on drawings.
 - 5) Indicate room space numbers taken from Contract Drawings.
- e. Details: Show section at 1:5 scale of members indicating construction, size, and thickness of components, frame profile, anchorage, steel sub-frames/embeds, continuous shim plates (where applicable), location of conduit entry into both sub-frame and door frame, threshold configuration, thumbturn lock guards, vision panel together with connections, fasteners, shims, sealant, backer rods, and means of separating dissimilar metals. Details shall be on separate sheets from plan and elevation drawings.
- f. General Product Information: Include notes sheet, miscellaneous materials specifications, abbreviations, finish/paint system, legend, and glazing specifications.
- g. Breakdown of Product Line Items:
- 1) If Manufacturer produces one contract line item as several parts (e.g., door with transom and sidelights), they shall break out items on drawings. Each item shall be a subdivision of that product line item number.
5. Installation instructions shall cite all anchorage components, including complete description of anchors, as well as installation criteria such as drilling specifications into concrete or masonry, torque requirements, minimum edge distance, spacing, etc. For sub-frame attachment to concrete, instructions shall include alert to installers to avoid cutting rebar during anchor installation.
6. Installation instructions shall be customized for each type of application.
- B. Certificates for FE/BR Products: Complete and submit to the COR, the forms referenced in Quality Assurance Article. Forms are found at the end of this Section.
-

1.4 QUALITY ASSURANCE

- A. Quality Control for Forced-Entry/Ballistic Resistant (FE/BR) Products: Certificates for fabricated and assembled FE/BR products specified in this Section shall follow quality control procedures established by the Government.
- B. Testing Laboratory Qualifications: For compliance with non-security performance requirements on security door assemblies of this Section, use only those testing laboratories, which have successfully demonstrated to COR that they have experience and capabilities needed to satisfactorily conduct required tests.
- C. Qualifications: The subcontractor, including the crew chief, shall have a previous experience in the installation of special FE/BR doors and windows and security hardware as used in US Embassies and high-security office and manufacturing buildings. The crew chief shall have the ability to read and understand the Contract Drawings, Specifications, shop drawings, and installation manuals by the manufacturer.
- D. The FE/BR Installer shall have the following responsibilities:
 - 1. Pre-Installation Conference: Before beginning installation of the FE/BR assemblies, the Installer shall conduct a pre-installation conference at the Project site with the contractor, the electrical sub-contractor, the COR, the Embassy Security engineer, and other interested parties to review installation procedures and manuals, schedules, and coordination of the FE/BR-assembly installation with other elements of the Work.
 - 2. Training: Provide the crew, which is to actually perform the installations of the FE/BR assemblies with on-site, hands-on training before the installation of the first FE/BR door, and instruct the crew on preventive measures which must be taken to protect the FE/BR assemblies from damage during construction.
 - 3. Inspection: Supervise the crew during their installation of the FE/BR doors. Upon completion of the installation of each FE/BR doors, inspect the work and direct the crew in any correction or modifications required for acceptable performance of the units.
- E. Certification by General Contractor: Prior to final completion, the General Contractor shall provide to the COR a certification that the FE/BR materials have been installed in accordance with the manufacturer's instructions and are operational. Specifically, the General Contractor's certification shall include:
 - 1. That the employees performing the installation met the specified training and experience qualifications.
 - 2. That manufacturer's installation instructions and shop drawings were followed.
 - 3. That each frame bolt has been installed plus or minus 6-mm of the center line in the horizontally slotted bolt hole and are fully torqued to the manufacturer's specs with shims inserted.
 - 4. That thresholds do not exceed specified limits, as indicated in the approved shop drawings.

5. That cap plugs for each door have been bagged and won't be installed until after the final QA inspection has been conducted by the Embassy security engineers and the COR.
6. That all access plates for each door has been installed as indicated in the approved shop drawings.
7. That each embed plate or sub-frame has been installed level, plumb and square.
8. That each door frame head has been installed level and the non-hinge side jamb has been installed plumb and square.
9. That for each door assembly, there is a continuous minimum gap between the door leaf and the door frames.
10. That each forced entry lock (FEL) is fully operable and the strike doesn't bind on the strike plate or the strike plate doesn't bind on the strike plate receiver without any part ground down.
11. That each lockset, deadbolt and panic exit device is able to fully engage and freely operate.
12. That FEL strike plates have not been altered.
13. That each door closer has been installed and adjusted in accordance with the manufacturer's instructions.
14. That automatic door operators have been adjusted as appropriate in accordance with the manufacturer's instructions to meet UFAS and appropriate fire codes.
15. That any separate pieces of ballistic trim have been installed, as indicated in the approved shop drawings.
16. Any overlapping finish work (i.e. metal, wood, stone, etc.) shall be designed to be removable without damaging the window and finish to allow future adjustments of 6-mm in or out of the opening.

- F. Employ only experienced tradesmen for fabrication and installation, who are capable of producing work of the highest standard of quality in the industry.

1.5 IDENTIFICATION SYSTEMS

- A. Identify each assembly to provide Government with ready reference to original manufacturer to facilitate reorders, replacement parts, service, resolution of complaints, and inventory. The label shall be an embossed/printed metal plate or metallic foil with adhesive backing for permanent identification. Locate label on the door frame header so that it is not exposed when the door is closed and is clearly visible and not obscured by hardware when the door is open. The label shall be approximately 40 x 75 mm and shall cite:

1. Manufacturer's name/city/state.
2. Contract number.
3. Month/year of manufacture.
4. Mark number.
5. Government or ASTM/UL certification model number.
6. Government code number.

- B. Provide a steel stamped ID code directly beneath the upper FEL under the door leaf non-hinge jamb trim plate, which will consist of the manufacturer name abbreviation, fabrication date (mm/yy) and mark number.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver each assembly to project site with fabrication, finishing, and assembly of primary panels, embeds/sub-frames, and frames completed and prepared for installation and connection with security systems. Disassemble hardware for shipping only to extent hardware interferes with shipping.
- B. Deliver door assemblies with glazing panels as factory glazed unless otherwise directed by Government.
- C. Pack door assemblies and window with accessories in one crate to include the door and frame, and the embed/sub-frame and ballistic trim. Provide two wood cross braces on both sides of the crate, and provide a separate compartment for installation hardware.
- D. Provide removable spreader bar between jambs during fabrication, delivery, and installation and to include mullions of each frame assembly, except where integral threshold is required and serves same purpose. Do not mar finishes of assembly with installation or removal of spreader bars.
- E. Provide protection of pre-finished units, such as pre-finished with baked enamel or stainless steel, using self-adhesive paper.
- F. Treat security door assemblies as fragile merchandise packaged and shipped in export wood crates with width end in upright position. Comply with manufacturer's directions for storage and handling to prevent edge damage or other damage to assembly resulting from effects of moisture, condensation, temperature changes, direct exposure to sun, and contact with chemical solvents. Provide at least one wood cross-brace for the door assembly. Clearly mark crates to indicate which side should be opened first.
- G. Clearly mark sub-frames/embeds with door mark number and identify head and left and right jambs. Package sub-frames/embeds separately and ship in export wood crates separate from the door assemblies. Protect each sub-frame/embed piece to minimize damage to finished surfaces.
- H. Package and ship installation hardware (anchors, bolts, screws, shims, ballistic trim, shop drawings, etc.) for each door in the same crate as the door assembly.
- I. Package and ship shop drawings for each door in the same crate as the door assembly.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Accepted manufacturer which is pre-certified fabricators (by DS) of ballistic-resistant and forced-entry-resistant assemblies is “**Norshield Security Product , Division of Norment Industries, Inc.,** or equal approved and certified as detailed below.
- B. Products must be certified by Bureau of Diplomatic Security (DS) in accordance with DS/PSP/PSD SD-STD-01.01, latest revision, and meet ASTM and UL standards for FE/BR regarding installation, operation, maintenance, hardware, finishes, and weather protection. These assemblies must also be able to accept scheduled hardware without compromising performance of either the door assembly or the hardware.
- C. Clarifications and additional OBO requirements for products tested under the ASTM and UL standards:
 - 1. Door frames are to be bolted to the sub-frames instead of being welded as shown in the ASTM test specifications. The door frames are to have horizontally slotted holes, not to exceed 300mm on center.
 - 2. Manufacturer shall provide two copies of all applicable ASTM and UL test reports for each product.
 - 3. Manufacturer shall provide two copies of the installation instruction manuals for each product.
 - 4. Door frame and sub-frame head are to have access ports to support 25mm conduit.
 - 5. Provide at least two bolt holes in the door head sill frame to facilitate proper installation.
 - 6. Insert shims at every frame bolt. Provide 1.5mm (1/16-inch) thick plastic shims or stainless steel shims with break off tabs for rough opening (R.O.) frame clearance.
- D. Selection of fabricator/manufacturer security door and window assemblies, and selection of manufactured elements, which are used in make up of that assembly, are Contractor's options subject to the following requirements and limitations, and subject to general provisions of Construction Contract:

2.2 MATERIALS, GENERAL

- A. Composition: A Government Code number, defined as indicated herein, identifies the composition of the door: Rating 2: Steel or Hollow Metal.
- B. Hot-Rolled Steel Sheets and Strips: ASTM A 569, commercial quality, pickled and oiled, except as otherwise indicated.
- C. Cold-Rolled Steel Sheets: ASTM A 366, commercial quality, except as otherwise indicated.
- D. Galvanized Steel Sheets: ASTM A 526, with ASTM A 525, G90 zinc coating, mill phosphatized; commercial quality, except as otherwise indicated.

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- E. Stainless Steel Sheets where required for finish: AISI Type 302/304, complying with ASTM A 167; commercial quality, No. 4 directional polish.
 - F. Supports and Anchors: Fabricate to endure required performances, but of not less than 1.5 mm sheet steel. For exterior wall assemblies, hot-dip zinc coat support/anchor units after fabrication in compliance with ASTM A 153, Class B.
 - G. Inserts, Bolts Fasteners: Standard units of strengths required to endure performances; hot-dip zinc coated where used in exterior wall assemblies in compliance with ASTM A 153, Class C/D.
 - H. Paint for Shop Application: Rust-inhibitive enamel for baking suitable as base for finish coats, which are specified as work of other sections.
 - I. Vision Panels for teller windowl: Fabricate vision panels of sizes shown and scheduled with same performance capabilities as specified/shown for teller window where installed. Where applicable, achieve performances and combined performances through lamination of transparent sheets, films, and screens of standard manufactured/tested products.
 - 1. Forced-Entry (FE) Resistance: Where assembly is indicated for forced-entry resistance rating (FE), provide light of size shown or scheduled in accordance with Bureau of Diplomatic Security (DS) certification.
 - 2. Ballistic Resistance (BR): Where assembly is indicated for ballistic-resistance rating (BR), provide light of size shown or scheduled in accordance with DS certification.
 - J. Hot-Dip Galvanizing: All exterior doors must be hot-dip galvanized in accordance with ASTM standards.

2.3 HARDWARE

- A. General: Provide special units of door hardware to achieve performances, and as shown and scheduled.
 - 1. Hinges and pivots: 3 hinges shall be provided for doors, hinges shall be double rabbeted in the door, and shall be McKinney T4B 3786 4-1/2" x 4-1/2" NRP, or equal approved.
 - 2. Locksets and latchsets: Unless otherwise noted, locksets and latchsets shall be mortise type, with steel cases and heavy forged brass fronts adjustable from flat to beveled. Locks shall be Corbin hardware Division L9500 series.
 - 3. Exit devises: shall be Von Duprin, Inc,
 - 4. Closers shall ne LCN 4110H-CUSH Series
 - 5. Surface Pulls shall be Trimco 1195-2
 - 6. Door stops: wall or floor type, Shall be IvesSeries
 - 7. Thresholds for outswing egress door shall be Pemko 270 seriesx 290DV x full width of opening

2.4 FABRICATION AND ASSEMBLY

- A. General: Fabricate, test, and pre-assemble security door assemblies with hardware at factory; disassemble hardware only to extent necessary for handling, packaging, shipment, and installation at Project. Fabricate metal work to comply with performance requirements. Fabrications shall be rigid, neat, and free from warp/buckle/similar defects, with eased edges and continuously-welded joints, ground where exposed, to produce smooth, flush, invisible joints. Weld in accordance with AWS D1.1, Structural Welding Code for Steel.
1. Prepare door leafs and frames of each assembly to receive hardware, devices, and accessory units as shown and scheduled. Reinforce work for hardware and devices, and cut work for mortised or concealed units; comply with ANSI A115 series specifications, working from templates supplied by unit manufacturers and suppliers.
 - a. Locate hardware, devices, and accessories as shown and scheduled (including on approved shop drawings) or, in accordance with security device manufacturer's recommendation for optimum responses, but in any case, as required to achieve required assembly performances. Do not cut or otherwise alter hardware in order to install on door.
 - b. Except where assembly is equipped with door-seal stripping at jambs and head, provide neoprene door silencers on stops; three at strike jamb for single door, and four at head for double door.
 - c. Except as otherwise indicated, pre-fabricate and pre--assemble security door assemblies to include full extent of required conduit-protected electrical/electronic power and control wiring placed and supported to avoid conflicts with other elements and subsequent drilling/cutting-in of work during installation of units. Provide access ports as required to support 25 mm conduit in door frames and sub-frames/embeds.
 - d. Clearances: Not more than 3 mm at jambs and head, except not more than 6 mm between fire-rated pair of doors. Not more than 6 mm at bottom. Undercut for carpets are not permitted where doors are used in corridors.
 - e. Fabricate frames with horizontally slotted bolt holes to allow for future frame adjustment.
 2. Shop painting: Provide base-coat, factory-applied painting of ferrous metal elements of assemblies excluding other specified exposed-finish surfaces of stainless steel, aluminum, bronze, and similar metals not intended for painting. Provide touch-up paint with each painted door.
 - a. Clean steel and zinc-coated steel surfaces of mill scale, rust, oil, grease, dirt, and other substances, immediately before finish application.
 - b. Apply pretreatment of cold phosphate solution (SSPC--PT2), hot phosphate solution (SSPC-PT4), or basic zinc -chromate/vinyl-butryal solution (SSPC-PT3).

- c. Apply paint coat specified for shop application, and bake on within time limits recommended by manufacturer of pretreatment. Apply in a uniform, smooth coat to result in dry film thickness of not less than 0.05 mm. Use color of the paint as selected by the COR out of the manufacturer's color chart.
3. Sub-frames/Embeds: Provide steel sub-frames or embed plates for all FE or FE/BR doors for installation at concrete, masonry, and other non-steel rough openings and for structural steel openings where the depth is less than the door frame depth. For individual openings, sub-frames or embeds shall be provided by the door supplier. For larger, multi-panel openings, sub-frames or embeds may be provided by either the door supplier or the Contractor; in either case they shall be designed by the door supplier and shown with the door shop drawings. Sub-frames shall be 6 mm thick minimum and embeds a minimum of 6 mm for interior applications and a minimum of 10 mm for exterior applications, with a minimum depth equal to or greater than the door frame depth. Coordinate the sub-frame or embed anchor locations with the door frame bolt hole locations. The steel sub-frame shall be assembled and braced by the manufacturer prior to shipping, in order to avoid out of plane deformation during transportation, installation and concrete pouring. The steel sub -frame shall be installed square & plumb. maximum tolerance allowed is 3mm
 - a. Interior embeds shall be A36 mild steel 6-mm (1/4 inch) minimum thickness and shall be prime painted with a high-grade metal primer. All embeds shall be factory drilled and tapped with an anchor design to allow minimum 10-mm (3/8 inch) adjustment 360 degrees from the centerline of the center of the drilled and tapped hole. All fasteners for doors or windows shall be ASTM grade 8 or other appropriate high strength bolt as identified in the blast report and complying with standard OBO specifications for FE/BR and Blast resistant products. All door embeds shall be pre-punched for the technical security conduit. Embeds without adjustment features or blank plates for field drilling and tapping shall not be permitted. Final embed design; construction and features shall be approved by the COR and the Embassy Security Engineer prior to fabrication and shipment.
 - b. For Existing Concrete - Provide a steel sub-frame, typically a 50 mm x 150 mm x 6 mm steel tube. Anchor the sub-frame with either 12 mm diameter x 90 mm long drop-in type expansion anchors or with Hilti HY150 injection or equivalent strength anchoring system with 12 mm diameter x 200 mm long Hilti HIT threaded rods spaced at 300 mm on center.
 - c. For Solid Masonry - Provide a steel sub-frame, typically a 50mm x 150mm x 6mm steel tube. Anchor the sub-frame with a Hilti HY150 or equivalent strength injection anchoring system with 12 mm diameter x 200 mm long Hilti HIT threaded rods spaced at 300 mm on center.

- d. For Hollow Masonry - Provide a steel sub-frame, typically a 50 mm x 150 mm x 6 mm steel tube. Anchor the sub-frame to the masonry with a Hilti HY20 or equivalent strength injection anchoring system with 12 mm diameter x 200 mm long Hilti HIT threaded rods and screen tubes spaced at 300 mm on center.
4. Protect the bottom forced entry lock thumbturn with a "U" shaped metal guard, with the opening at the bottom that has been approved by the OBO/PE/SM FE/BR Program. Attach the guard to the door surface with counter-sunk screws on the inside of the "U." The finish of the guard shall match the finish of the door.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install security door assemblies in accordance with approved shop drawings, manufacturer's data and instructions, and requirements of these specifications. Install as required to achieve specified performances, and to comply with recommendations of related industry association or testing agency sponsoring standards for required non-security performances.
 1. Install the assemblies in compliance with recommendations and instructions of the manufacturer.
 2. Install the security devices on door assemblies as shown or scheduled. Comply with manufacturer's instruction, and install devices fully wired and ready for electrical/electronic connection as work of other sections as directed by each system installer.
 3. Installer shall not grind any portion of door leaf, frame, FEL strikes, FEL strike plates or FEL strike plate receivers.
 4. Forced entry lock strikes shall engage strike plate without binding. Do not remove and relocate or otherwise alter strike plates.
 5. Install all frame bolts plus or minus 6-mm of the center line in the horizontally slotted bolt hole and torque to the manufacturer's specs with shims at every frame bolt.
 6. Coordinate installation of door assemblies in sub-frames or embeds with installation of expansion joint materials, isolators, joint fillers, spacer strips, tapes, gaskets, sealants, backer rods, and other elements indicated. Produce tightly fitted, weather resistant security door assemblies that achieve required performances. Tighten bolts for maximum shear and tensile strength, for resisting forced indicated. Comply with Fabricator's instructions and recommendations.
 7. Place installation accessory items as shown and as required for unit installations, including flashings, shims, fillers, bedding materials, and anchorage accessories. Prepare openings for unit interfaces with other work.

- B. Anchorage: The door manufacturer shall provide anchors appropriate for substrate to which door frame and sub-frame is to be fastened. Door frames shall have pre-drilled horizontally slotted bolt hole patterns not to exceed 300 mm on center. The manufacturer shall verify substrates involved, and supply any special fastening tools (e.g., special drill, bit, tap) required by anchoring system. The anchor shall be acceptable for shock/short duration loading, and have potential for removal and re-installation during life of building.
1. Avoid cutting rebar during concrete sub-frame installation.
 2. Provide 1.5 mm (1/16 inch) thick plastic shims with break-off tabs for rough opening (RO) frame clearance.
 3. Match finish of cap plugs used in frame with frame finish to the maximum extent possible. Do not install cap plugs until after the final QA inspection, conducted by the Embassy Security Engineer has been completed.

3.2 ADJUST AND CLEAN

- A. General: Upon request of COR, remove protective coverings and clean exposed surfaces. Repair damaged elements, restore abraded surfaces, touch-up base-coat paint finish with air-drying primer, and remove imperfections from exposed natural metal finishes.
1. Check and readjust hardware, devices, and accessories with door-to-frame-and-sill/ threshold clearances set for proper operation of locks, door seals, and other operational units. Do not remove permanently applied performance labels.
 2. Comply with "Door Hardware" section requirements for protection and handling of keys, locking devices, and associated information.
 3. Exercise extreme care in cleaning exposed surfaces of polycarbonate; comply with manufacturer's directions.

END OF SECTION 08318

SECTION 099123 - PAINTING

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Surface preparation and field application of paints and coatings.

1.2 RELATED SECTIONS

- A. Section 09220 Plastering.
- C. Division 08 Doors and Windows.

1.3 REFERENCES

- A. ASTM D16 – Terminology for Paint and Related Coatings, Materials and Applications.
- B. ASTM D4442 - Test Method for Direct Moisture Content Measurement of Wood and Wood Base Materials.
- C. NACE (National Association of Corrosion Engineers) - Industrial Maintenance Painting.
- D. PDCA (Painting and Decorating Contractors of America) - Painting - Architectural Specifications Manual.

1.4 DEFINITIONS

- A. Conform to ASTM D16 for interpretation of terms used in this Section.

1.5 SUBMITTALS

- A. Product Data: Provide data on all finishing products.
- B. Samples: Submit two samples, actual in size illustrating range of colors and textures available for each surface finishing product scheduled.
- C. Manufacturer's Instructions: Indicate special surface preparation procedures, substrate conditions requiring special attention.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum three years experience.

1.7 REGULATORY REQUIREMENTS

- A. Conform to applicable code for flame and smoke rating requirements for finishes.

1.8 FIELD SAMPLES

- A. Provide field sample panel, 1.00 m long by 1.00 m wide, illustrating special coating color, texture, and finish.
- B. Accepted sample may not remain as part of the Work.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container label to include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing. Do not deliver to site containers larger than 20 kg in weight.
- C. Store paint materials at minimum ambient temperature of 7 degrees C and a maximum of 32 degrees C, in ventilated area, and as required by manufacturer's instructions.

1.10 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Do not apply exterior coatings during rain or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- C. Minimum Application Temperatures for Latex Paints: 7 degrees C for interiors; 10 degrees C for exterior; unless required otherwise by manufacturer's instructions.

PART 2- PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering accessories that may be incorporated into the work include the following or approved equal:
1. Jotun, Egypt
 2. Chemicals for Modern Building

2.2 COATING MATERIALS

- A. Manufacturer: coating materials are to be approved brands and obtained from one approved manufacturer unless otherwise specified.
- B. Emulsion paint: PVA resin based emulsion to produce a durable, flexible and water-resistant coating suitable for repeated washing and scrubbing.
- C. Oil paint: oleo-resinous; non-toxic; drying to a smooth; highly opaque to produce a durable; flexible and water-resistant coating with excellent adhesion and color retention. Undercoat is to be suitable to receive further coatings. Finish is to be high gloss; semi-gloss; semi-gloss or matt; to be selected by the COR or designated representative.
- D. Epoxy paint: epoxy paint shall have a high degree of resistance to acids, alkalis and water. It shall be easily applied over surfaces that have been primed with a primer containing an inhibitive pigment and shall present a glossy finish. One coat of primer and two finish coats shall be applied with minimum thickness of 0.075 mm per coat.
- E. Acrylic paint: ready mixed; waterproof and decorative coating comprising synthetic rubber base; selected pigment sand line aggregate for texture surfaces. The following selection of paint shall be applied as shown on the drawing.

2.3 PREPARATION AND PRIMING MATERIALS

- A. Preparation materials: cleaning, stopping, filling, sealing etc... materials are to be types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared, unless otherwise specified.
- B. Primer for concrete; masonry, rendering and plaster: natural oil and alkali resistant resin based priming paint.

- C. Primer for wood: ready mixed aluminum priming paint, water-borne priming paint, or solvent-borne priming paint to provide high moisture resistance and suitable for use with type of wood and preservative treatment.
- D. Primer for iron and steel: non-lead based priming paint.
- E. Primer for galvanized iron and steel: zinc chromate priming paint.

PART 3 - EXECUTION

3.1 GENERALLY

- A. Quality of work: operatives must be appropriately skilled and experienced in the use of specified materials and methods of application. Prepare surfaces and apply coatings in accordance with manufacturer's recommendations.
- B. Coating materials:
 - 1. Where possible are to be from one manufacturing batch; where more than one batch is to be used, keep separate, allocate to distinct parts or areas of the work and inform the COR or designated representative accordingly
 - 2. To be delivered in sealed containers, clearly labeled with type of material, brand name, intended use and manufacturer's batch numbers
 - 3. Store in a clean, dry area protected from extreme temperatures and in accordance with manufacturer's recommendations; use in order of delivery.
- C. Compatibility:
 - 1. Check that all materials to be used are recommended by their manufacturers for the particular surface and conditions of exposure and that they are compatible with each other.
 - 2. Where surfaces have been treated with preservatives, check with treatment manufacturer that coating materials are compatible with the treatment and do not inhibit its performance.
 - 3. Inform the COR or designated representative of any discrepancy in specification of coatings and obtain instructions before proceeding with application.
- D. Color range: carry out decoration in colours or within range produce by particular coating manufacturer as appropriate and as selected by the COR or designated representative.

- E. Off site work: off site preparation and coating is to be carried out under cover in a suitable environment with adequate lighting. Store all items, both before and after coating, in a clean, dry area protected from the weather and mechanical damage, properly stacked with spaces to permit air circulation and prevent sticking of surfaces.
- F. Protection: adequately protect both internal and external surfaces which are not to be coated, by covering with dust sheets or other suitable materials. Place “wet paint” signs and provide barriers where necessary to prevent damage to freshly applied coatings.
- G. Control samples: for each type of coating, prepare sample areas of the finished work, including preparation, in advance of the remainder. Make arrangements with the COR or designated representative for the full time supervision of the application of each coat. Obtain approval of appearance before proceeding. Control samples may, at the COR or designated representative’s discretion, be used as the basis for comparative testing of dry film thickness of complete coating systems.
- H. Inspection of work: permit coating manufacturers to inspect the work in progress and take samples of their products from site if requested.
- I. Inspection of work: inspection of the whole of the work at each stage may be made, at the direction of the COR or designated representative. Agree with the COR or designated representative a program which will facilitate such inspections and notify him when each part and stage of the work is ready for inspection. Do not proceed with subsequent stages of the work until authorized.

3.2 PREPARATION

- A. Preparation materials: use in accordance with manufacturer’s recommendations.
- B. Masonry and rendering: remove dirt, surface deposits, loose and flaking material with a stiff brush. Fill holes and cracks flush with surface.
- C. Plaster: remove dirt and surface deposits with a stiff brush. Rub down to remove nibs, trowel marks and plaster splashes. Lightly rub over-trowelled glossy plaster with worn abrasive paper. Fill all depressions, holes and cracks and lightly rub down flush with surface.
- D. Plasterboard: fill imperfections and/or minor damage to leave a smooth; blemish-free surface.
- E. Uncoated wood: Ensure that large and loose knots are removed and made good with sound wood of the same species and sand flush. Ensure that surfaces are clean and remove oil, grease and excessive natural oils with suitable solvents. Sand to a smooth, even finish with arrises rounded or eased. Remove resinous exudations by heat. Ensure that heads of fastenings are countersunk sufficiently to hold stopping / filling; fill nail and screw holes, joints, cracks, holes, depressions, open or coarse

grain with stopper / filler worked well in and finished off flush with surface; sand smooth and remove dust.

- F. Priming wood: before priming preservative treated wood ensure that any cut surfaces have been re-treated and solvents have completely dried out. Apply primer to all surfaces including rebates, beads, backs etc... which will be concealed when components are fixed in place. Liberally coat all end grain, allow soaking in, and then, re-coating.
- G. Pre-primed wood: remove dirt and grease from satisfactorily pre-primed surfaces and sand lightly. Sand down chalking, powdery and other defective areas to the bare surface, remove dust, and re-prime as necessary.
- H. Stopping, filling and priming: apply oil based stoppers / fillers after priming. Apply water based stoppers / fillers before priming unless otherwise recommended by manufacturer. Patch prime water based stoppers / fillers when applied after priming.
- I. Stopper/filler for clear coatings: carefully adjust color so that after coatings have been applied it closely matches the color of the wood, to approval.
- J. Concealed metal surfaces: apply black bitumen coating solution to concealed surfaces of metal components before fixing.
- K. External doors: prime and paint bottom edges before hanging.
- L. Ironmongery: remove from surfaces to be coated and refix on completion. Do not remove hinges unless instructed to do so.
- M. Doors and windows: ensure that doors and opening windows etc... are eased as necessary before coating. Prime any resulting bare areas.
- N. Galvanized surfaces: remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- O. Uncoated steel and iron surfaces: remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by hand wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Spot prime paint after repairs.
- P. Shop primed steel surfaces: sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces.

3.3 APPLICATION

- A. Generally: apply products in accordance with manufacturer's instructions
- B. Unsuitable conditions: do not apply coatings to surfaces affected by moisture, when relative humidity is more than 80% or when heat is likely to cause blistering or wrinkling. Take necessary precautions including restrictions on working hours, providing temporary protection and allowing extra drying time, to ensure that coatings are not adversely affected by climatic conditions before, during and after application.
- C. Painting generally:
 - 1. Do not thin or intermix paint materials unless otherwise specified or recommended; if materials are found to have been thinned without authorization, the COR or designated representative may require the application of additional coats.
 - 2. Apply priming coats as soon as possible on the same day a preparation is completed; ensure that they are of adequate thickness and suit surface porosity.
 - 3. Adjacent coating of the same material must be of a different tint to ensure that each coat provides complete coverage.
 - 4. Apply coatings by brush unless otherwise specified or approved; keep brushes, tools and equipment in a clean condition.
 - 5. Apply coatings to clean, dust free, suitably dry surfaces in dry atmospheric conditions and after any previous coats have hardened; lightly abrade between coats as necessary.
 - 6. Apply coatings evenly to give smooth finish of uniform color, free from brush marks, nibs, sags, runs and other defects; cut in neatly and cleanly; do not splash or mark adjacent surfaces.
 - 7. Keep all surfaces clean and free from dust during coating and drying; adequately protect completed work from damage.
- D. Completion: ensure that opening lights and other moving parts move freely. Remove all masking tape and protective wrappings.

3.4 SCHEDULE - EXTERIOR SURFACES

- A. Concrete, cement plaster:
 - 1. One coat of alkali resistant primer.
 - 2. Two coats of block filler.
 - 3. A minimum of two coats of acrylic emulsion paint.

B. Gypsum wallboard:

1. One coat of gypsum board primer.
2. A minimum of two coats of acrylic emulsion paint.

C. Steel: All steel surfaces shall be painted using enamel, Semi-gloss paints.

END OF SECTION 099123