

STATEMENT OF WORK

**Repair, Refurbishment
and
Minor Construction Services**

PROJECT NAME:

**“Office Setup in
Tegucigalpa, Honduras”**

International Narcotics & Law Enforcement (INL)



October 2026

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Office Space Refurbishment
and
Minor Construction Services

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SECTION A – INTRODUCTION

The U.S. Department of State (DoS) is the lead institution for the conduct of American diplomacy with its mission to advance U.S. national security interests, fight terrorism, protect U.S. interests abroad, and implement foreign policy initiatives that build a freer, more prosperous, and secure world. The Bureau of International Narcotics and Law Enforcement Affairs (INL), works to keep Americans safe at home by countering international crime, illegal drugs, and instability abroad.

In Honduras, INL assists the host government by strengthening police, prosecutors, and judges. These efforts reduce the amount of crime and illegal drugs reaching U.S. shores keeping American communities safe while enhancing Honduras' capacity to deliver security and justice services to its citizens. INL's work in Honduras supports the country's efforts to combat transnational criminal organizations and disrupt U.S.-bound illicit drugs.

SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 DESCRIPTION OF SUPPLIES OR SERVICES

The Contractor shall refurbish an approximate area of 335 m², including the demolition of existing elements, redistribution of spaces, construction of new divisions, installation of electrical systems and necessary adaptations to guarantee optimal operating conditions. Remodeling should follow all technical specifications stated on approved designs. All mechanical, electrical, and plumbing (MEP) systems shall be installed within the walls, floors, shafts, and/or above finished ceilings. Exposed surface mounted plumbing and electrical components will only be approved on a case-by-case basis. Walls shall be plastered per commercial industry standards and cured before applying surface coatings. Contractor shall not deviate from the design approved by INL and the Client without their prior approval.

The contractor must execute all works in accordance with good civil engineering practices, technical standards applicable in Honduras (including criteria used by FHIS and local building regulations), as well as international quality standards in interior works.

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All materials must be new, of the highest quality and suitable for the intended use. The use of defective materials, reused without authorization or that do not comply with technical specifications will not be allowed.

The contractor will be responsible for verifying on-site dimensions, existing conditions, and compatibility between systems before executing any activity.

The project shall be constructed according to the plans, specifications and the list of requirements provided below.

B.2 DESCRIPTION OF PRICES/COSTS

This is a Firm Fixed Price Contract. No additional sums will be payable due to escalation in the cost of materials, equipment, or labor. Nor will the contract price be adjusted on account of fluctuations in currency exchange rates.

Modifications to the contract pricing or duration of services shall be authorized by the Contracting Officer (CO). The Contractor shall not deviate from the terms of the contract. Any deviation by the Contractor without written documentation and authorization from the CO will put the Contractor at risk. The contract for this work will be awarded to the offeror that is technically acceptable at the best fixed price. The Contractor shall promptly notify the Contracting Officer of all matters that may result in either an increase or decrease in cost of the contract.

SECTION C – PERFORMANCE WORK STATEMENT

C.1. SCOPE

The Embassy of the United States of America in Tegucigalpa, through the International Narcotics and Law Enforcement Agency (INL), is supporting with the setup of the new offices for an INL-supported unit.

C.1.1 PURPOSE

The objective of the project is to refurbish and secure an office space of an INL supported unit through the execution of architectural, electrical, hydrosanitary and technical interventions that meet the requirements defined by the project. The refurbishment will include office areas, secure communications infrastructure, evidence storage, meeting spaces, etc.

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C.1.2 LOCATION OF WORK

Place of performance is in Tegucigalpa, Honduras. Exact location will be provided at the time of the award.

C.1.3 PERIOD OF PERFORMANCE

The Period of Performance for this requirement is **120 calendar days** from the issuance of the Notice to Proceed. The Bidder is required to provide a Proposed Construction Schedule that adheres to the estimated timeline. Deviations due to weather or site conditions from the Bidder's Proposed Construction Schedule will be reviewed and considered by the CO on a case by case basis.

C.1.4 APPLICABLE STANDARDS

The standards shown below are not all-inclusive but shall be used for project construction as appropriate:

- i. American Concrete Institute (ACI)
- ii. Portland Cement Association (PCA)
- iii. American Welding Society (AWS)
- iv. American Standards for Testing and Materials (ASTM)
- v. American Institute for Steel Construction (AISC)
- vi. Underwriters Laboratories (UL)
- vii. National Electric Code (NEC)
- viii. National Electrical Manufacturer Association (NEMA)
- ix. National Fire Protection Association (NFPA)
- x. Código Hondureño de la Construcción (CHOC-08)

C.1.5 SPECIAL REQUIREMENTS

- The Contractor shall recruit local suppliers and laborers. The recruitment of Third Country Nationals shall not be applicable.
- The Contractor shall provide worker's compensation insurance covering the performance period
- The price proposal shall be based on the drawings (copy attached) and technical specifications provided in this SOW. The Contractor shall be

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responsible for completing the work according to the plans and details showed on the drawings. The quantities mentioned in the bill of quantities are not final and shall be verified and confirmed by the Contractor in compliance with the drawings: (See attached)

- Contractor shall submit a list of laborers and workers and copy of their IDs. In any case where the contractor shall bring on new team members to the project, an updated list of names and ID will be approved by the COR.

C.1.6 MISCELLANEOUS: OTHER PROJECT CONSTRAINTS.

- No other constraints

C.2. PROJECT DESCRIPTION

The Contractor shall refurbish an approximate area of 335 m², including the demolition of existing elements, redistribution of spaces, construction of new divisions, installation of electrical systems and necessary adaptations to guarantee optimal operating conditions. Remodeling should follow all technical specifications stated on approved designs. All mechanical, electrical, and plumbing (MEP) systems shall be installed within the walls, floors, shafts, and/or above finished ceilings. Exposed surface mounted plumbing and electrical components will only be approved on a case-by-case basis. Walls shall be plastered per commercial industry standards and cured before applying surface coatings. Contractor shall not deviate from the design approved by INL and the Client without their prior approval.

The contractor must execute all works in accordance with good civil engineering practices, technical standards applicable in Honduras (including criteria used by FHIS and local building regulations), as well as international quality standards in interior works.

All materials must be new, of the highest quality and suitable for the intended use. The use of defective materials, reused without authorization or that do not comply with technical specifications will not be allowed.

The contractor will be responsible for verifying on-site dimensions, existing conditions, and compatibility between systems before executing any activity.

The project shall be constructed according to the plans, specifications and the list of requirements provided below.

- Demolition, Dismantling, Removal, and Disposal

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- Architectural Works
- Doors
- Windows
- Electrical Installations
- Electrical Works
- Plumbing and Sanitary Installations
- Minor and Complimentary Works of the Project
- Manual Roller Shades

C.3. BILL OF QUANTITIES (BOQ)

COST ELEMENTS BREAKDOWN					
ITEM REF.	DESCRIPTION OF THE CONSTRUCTION ACTIVITIES	UNIT	QUANTITY	UNIT PRICE COST (\$)	TOTAL PRICE COST (\$)
CLIN 1	Demolition, Dismantling, Removal, and Disposal				
1.1	Demolition and removal of existing floor system				
1.1.1	Demolition and removal of existing floor system	m2	333.43		
Sub-Total - Demolition and removal of existing floor system					
1.2	Demolition and removal of existing gypsum board partitions				

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1.2.1	Demolition and removal of existing gypsum board partitions	m2	215.03		
Sub-Total - Demolition and removal of existing gypsum board partitions					
1.3	Dismantling and removal of existing suspended ceiling system				
1.3.1	Dismantling and removal of existing suspended ceiling system	m2	333.43		
Sub-Total - Dismantling and removal of existing suspended ceiling system					
1.4	Removal and disposal of existing electrical installations				
1.4.1	Removal and disposal of existing electrical receptacles	each	73.00		
1.4.2	Removal and disposal of existing single-pole switch	each	19.00		
1.4.3	Removal and disposal of existing double-pole switch	each	9.00		
1.4.4	Removal and disposal of existing triple-gang switch assembly	each	2.00		
1.4.5	Removal and disposal of existing 2x4 LED panel fixture	each	39.00		
1.4.6	Removal and disposal of existing recessed spotlight fixture	each	17.00		
1.4.7	Removal and disposal of existing electrical panelboard	each	3.00		
1.4.8	Removal and disposal of existing electrical wiring and conduit system	lump sum	1.00		
Sub-Total - Removal and disposal of existing electrical installations					
1.5	Removal and disposal of existing air-conditioning installations				
1.5.1	Removal and disposal of existing exhaust fans	each	3.00		
1.5.2	Removal and disposal of existing smoke detectors	each	2.00		
1.5.3	Removal and disposal of existing air diffusers	each	11.00		
1.5.4	Removal and disposal of existing ductwork	lump sum	1.00		
Sub-Total - Removal and disposal of existing air-conditioning installations					
1.6	Removal and disposal of existing IT installations				
1.6.1	Removal and disposal of existing data outlet	each	34.00		

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1.6.2	Removal and disposal of existing structured cabling	lump sum	1.00		
Sub-Total - Removal and disposal of existing IT installations					
1.7	Dismantling, removal, and proper disposal of existing doors				
1.7.1	Dismantling, removal, and proper disposal of P-1 (1.00m × 2.14m)	each	1.00		
1.7.2	Dismantling, removal, and proper disposal of P-2 (1.06m × 2.13m)	each	1.00		
1.7.3	Dismantling, removal, and proper disposal of P-3 (0.70m × 2.09m)	each	4.00		
1.7.4	Dismantling, removal, and proper disposal of P-4 (1.08m × 2.12m)	each	1.00		
1.7.5	Dismantling, removal, and proper disposal of P-5 (0.75m × 2.10m)	each	3.00		
1.7.6	Dismantling, removal, and proper disposal of P-6 (0.80m × 2.10m)	each	1.00		
1.7.7	Dismantling, removal, and proper disposal of P-7 (0.81m × 2.10m)	each	1.00		
1.7.8	Dismantling, removal, and proper disposal of P-8 (0.96m × 2.08m)	each	4.00		
1.7.9	Dismantling, removal, and proper disposal of P-9 (1.41m × 2.13m)	each	1.00		
1.7.10	Dismantling, removal, and proper disposal of P-10 (1.84m × 2.12m)	each	1.00		
1.7.11	Dismantling, removal, and proper disposal of P-11 (0.76m × 2.13m)	each	1.00		
1.7.12	Dismantling, removal, and proper disposal of P-12 (0.81m × 2.08m)	each	1.00		
1.7.13	Dismantling, removal, and proper disposal of P-13 (0.86m × 2.13m)	each	1.00		
1.7.14	Dismantling, removal, and proper disposal of P-14 (0.79m × 2.02m)	each	2.00		
Sub-Total - Dismantling, removal, and proper disposal of existing doors					
1.8	Dismantling, removal, and proper disposal of existing windows				
1.8.1	Dismantling, removal, and proper disposal of V2-01 (1.25m × 1.02m)	each	2.00		
1.8.2	Dismantling, removal, and proper disposal of V2-02 (3.02m × 1.50m)	each	1.00		

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1.8.3	Dismantling, removal, and proper disposal of V2-03 (1.07m × 1.50m)	each	2.00		
1.8.4	Dismantling, removal, and proper disposal of V2-04 (1.45m × 1.50m)	each	1.00		
1.8.5	Dismantling, removal, and proper disposal of V3-01 (2.00m × 1.80m)	each	2.00		
1.8.6	Dismantling, removal, and proper disposal of V3-02 (1.00m × 1.80m)	each	1.00		
Sub-Total - Dismantling, removal, and proper disposal of existing windows					
TOTAL - DEMOLITION, DISMANTLING, REMOVAL, AND DISPOSAL					
CLIN 2	ARCHITECTURAL WORKS				
2.1	Walls				
2.1.1	Drilling and anchoring in existing slab, including installation of 3/8" rebar anchor pins with epoxy adhesive, minimum embedment depth 5 cm, spaced at 30 cm	Global	1.00		
2.1.2	Construction of lower beam (15×25 cm), reinforced with #4 and #3 bars @ 15 cm, including side formwork, concrete placement, and curing	ml	1.23		
2.1.3	Construction of reinforced concrete columns (15×15 cm), reinforced with #4 and #3 bars @ 20 cm, anchored to slab with epoxy (minimum 5 cm embedment), including side formwork and concrete placement	ml	4.90		
2.1.4	Construction of 8" concrete block walls, reinforced with 1#3 @ every 2 cores and 1#3 @ every 3 horizontal ties	m2	3.85		
2.1.5	Construction of upper beam (15×15 cm), reinforced with #4 and #3 bars @ 15 cm, including side formwork, concrete placement, and curing	ml	1.23		
2.1.6	Construction of regular gypsum board walls	m2	132.26		
2.1.7	Construction of moisture-resistant gypsum board walls (Durock)	m2	13.01		
Sub-Total - Walls					
2.2	Finishes				
2.2.1	Cement–sand plaster on concrete block walls, mortar mix 1:4 (cement:sand)	m2	3.85		

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2.2.2	Smooth finish on concrete block walls using pre-mixed compound	m2	3.85		
2.2.3	Ceramic wall tile installation in kitchen walls, 30×60 cm format, semi-gloss finish, 8–10 mm thickness, installed with porcelain adhesive and epoxy grout	m2	6.05		
2.2.4	Ceramic wall tile installation for shower walls, 30×60 cm or 25×40 cm format, light anti-slip or matte finish, 8–10 mm thickness, installed with porcelain adhesive and moisture-resistant epoxy grout	m2	12.60		
Sub-Total - Finishes					
2.3	Floor Finishes				
2.3.1	Porcelain floor tile PURE/POLAR WHITE, 60×60 cm, 7–9 mm thickness, installed with porcelain-grade adhesive and recommended grout, glossy finish, high-traffic, low-absorption	m2	333.43		
2.3.2	Non-slip ceramic floor tile, unspecified format, installed with ceramic-grade adhesive and recommended grout, beige or cream color	m2	11.68		
2.3.3	Shower curbs (includes installation of non-slip ceramic tile)	ml	2.12		
2.3.4	Floor baseboard (interior areas)	ml	181.71		
2.3.5	10 cm sanitary baseboard	ml	12.11		
Sub-Total - Floor Finishes					
2.4	Ceiling Finishes				
2.4.1	Supply and installation of suspended ceiling system with gypsum–mineral fiber tiles, 2×2 ft panels	m2	333.43		
2.4.2	30 mm glass wool thermal-acoustic insulation	m2	333.43		
Sub-Total Ceiling Finishes					
2.5	Wall Painting				
2.5.1	High-standard eggshell or satin finish paint for interior walls	m2	481.70		
Sub-Total - Wall Painting					
TOTAL ARCHITECTURAL WORKS					
CLIN 3	DOORS				

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3.1	Supply and installation of Door P-1, steel swing door, natural finish or as per project specification, high-strength type for main access. Includes steel frame, reinforced leaf, hydraulic arm (door closer), lockset, bar-type pull handle, and heavy-duty pivot set. Armored type. Height: 2.10 m, Width: 1.00 m (single leaf).	each	1.00		
3.2	Supply and installation of Door P-2, aluminum frame and sub-frame, black color, with 1/4" thick reflective privacy glass on one side. Includes hydraulic arm, security lockset with nylon handle, and stainless-steel pull handle. Height: 2.10 m, Width: 1.00 m (single leaf).	each	2.00		
3.3	Supply and installation of Door P-3, wooden sub-frame and jambs, thermoformed metal leaf with smooth appearance, three 3" hinges, lockset with latch and stainless-steel handle. Door sub-frame width shall match finished wall thickness. Height: 2.10 m, Width: 1.00 m (single leaf).	each	2.00		
3.4	Supply and installation of Door P-4, aluminum frame and sub-frame, black color, with 1/4" thick reflective privacy glass on one side. Includes hydraulic arm, security lockset with nylon handle, and stainless-steel pull handle. Height: 2.10 m, Width: 1.95 m (double swing door).	each	1.00		
3.5	Supply and installation of Door P-5, aluminum frame and sub-frame, black color, with 1/4" thick natural glass and sandblast stripe finish. Includes hydraulic arm, security lockset with nylon handle, and stainless-steel pull handle. Height: 2.10 m, Width: 0.90 m (single leaf).	each	5.00		
3.6	Supply and installation of Door P-6, aluminum frame and sub-frame, black color, with 1/4" thick natural glass and sandblast stripe finish. Includes hydraulic arm, security lockset with nylon handle, and stainless-steel pull handle. Height: 2.10 m, Width: 1.00 m (single leaf).	each	1.00		

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3.7	Supply and installation of Door P-7, wooden sub-frame and jambs, thermoformed metal leaf with smooth appearance, three 3" hinges, lockset with latch and stainless-steel handle. Door sub-frame width shall match finished wall thickness. Height: 2.10 m, Width: 0.90 m (single leaf).	each	2.00		
3.8	Supply and installation of Door P-8, wooden sub-frame and jambs, thermoformed metal leaf with smooth appearance, three 3" hinges, lockset with latch and stainless-steel handle. Door sub-frame width shall match finished wall thickness. Height: 2.10 m, Width: 0.71 m (single leaf).	each	2.00		
3.9	Supply and installation of Door P-9, wooden sub-frame and jambs, thermoformed metal leaf with smooth appearance, three 3" hinges, lockset with latch and stainless-steel handle. Door sub-frame width shall match finished wall thickness. Height: 2.10 m, Width: 0.80 m (single leaf).	each	2.00		
3.1	Supply and installation of Door P-10, aluminum frame and sub-frame, black color, with 1/4" thick natural glass and sandblast stripe finish. Both leaves slide over each other, with recessed hook lockset and stainless-steel handle, plus recessed aluminum pull handle on both doors. Height: 2.10 m, Width: 2.00 m (double sliding door).	each	2.00		
TOTAL - DOORS					
CLIN 4	WINDOWS				
4.1	Supply and installation of Window V-01, heavy-duty aluminum frame and sub-frame, black color, with 1/4" thick natural glass and sandblast stripe finish, two-section window. Height: 2.45 m, Width: 2.60 m.	each	2.00		
4.2	Supply and installation of Window V-02, heavy-duty aluminum frame and sub-frame, black color, with 1/4" thick natural glass and sandblast stripe finish, three-section window. Height: 2.45 m, Width: 3.50 m.	each	1.00		

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4.3	Supply and installation of Window V-03, heavy-duty aluminum frame and sub-frame, black color, with 1/4" thick natural glass and sandblast stripe finish, two-section window. Height: 2.45 m, Width: 3.17 m.	each	1.00		
4.4	Supply and installation of Window V-04, heavy-duty aluminum frame and sub-frame, black color, with 1/4" thick natural glass and sandblast stripe finish, three-section window. Height: 2.45 m, Width: 3.91 m.	each	1.00		
4.5	Supply and installation of Window V-05, heavy-duty aluminum frame and sub-frame, black color, with 1/4" thick natural glass and sandblast stripe finish, two-section window. Height: 2.45 m, Width: 2.09 m.	each	1.00		
4.6	Supply and installation of Window V-06, heavy-duty aluminum frame and sub-frame, black color, with 1/4" thick natural glass and sandblast stripe finish, three-section window. Height: 2.45 m, Width: 4.14 m.	each	1.00		
TOTAL - WINDOWS					
CLIN 5	ELECTRICAL INSTALLATIONS				
5.1	Supply and installation of electrical service connection from the building's main panelboard to the project	lump sum	1.00		
5.2	Supply and installation of main disconnect switch for project power supply	lump sum	1.00		
5.3	Supply and installation of feeder for lighting panelboard (24 spaces)	lump sum	1.00		
5.4	Supply and installation of lighting panelboard (24 spaces)	each	1.00		
5.5	Supply and installation of feeder for power panelboard (36 spaces)	lump sum	1.00		
5.6	Supply and installation of power panelboard (36 spaces)	each	1.00		
5.7	Supply and installation of lighting fixture Type "A"	each	33.00		
5.8	Supply and installation of lighting fixture Type "B"	each	32.00		
5.9	Supply and installation of lighting fixture Type "F"	each	8.00		

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5.1	Supply and installation of outlet box for single-pole switch	each	11.00		
5.11	Supply and installation of outlet box for double switch	each	6.00		
5.12	Supply and installation of outlet box for 3-way switch	each	10.00		
5.13	Supply and installation of metal outlet box, conduit, wiring, and standard duplex receptacle (TD Duplex), including faceplate, accessories, and functional testing	each	40.00		
5.14	Supply and installation of metal outlet box, conduit, wiring, and isolated-ground duplex receptacle (TD IG), including faceplate, accessories, and functional testing	each	54.00		
5.15	Supply and installation of metal outlet box, conduit, wiring, and dedicated duplex receptacle (TD Dedicated), with independent circuit from the distribution panel, including faceplate and functional testing	each	5.00		
5.16	Supply and installation of metal outlet box, conduit, wiring, and 220V dedicated receptacle (TD/ST 220), including faceplate, protections, and functional testing	each	3.00		
5.17	Supply and installation of metal outlet box, conduit, wiring, and GFCI duplex receptacle (TD GFCI), including faceplate and functional testing	each	6.00		
5.18	Supply and installation of metal outlet box, conduit, wiring, and isolated-ground GFCI duplex receptacle (TD IG GFCI), including faceplate and functional testing	each	3.00		
5.19	Supply and installation of metal outlet box, conduit, CAT 6e structured cabling, RJ-45 connector, faceplate, and labeling in accordance with TIA/EIA-568 standards, including continuity testing	each	53.00		
5.20	Supply and installation of Wall-Mounted Water Heater (on-demand type) for shower area, including mounting hardware, electrical connection, hydrosanitary connection, safety valve, and functional testing	each	2.00		

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5.21	Supply and installation of Electric Water Heater for Kitchenette sink, including mounting hardware, electrical connection, hydrosanitary connection, safety valve, and functional testing	each	1.00		
TOTAL ELECTRICAL INSTALLATIONS					
CLIN 6	PLUMBING AND SANITARY INSTALLATIONS				
6.1	Supply and installation of new lavatory, including removal of existing unit, installation of faucet, trap, control valves, sanitary seals, and connection to existing piping (Bathrooms 1 and 2)	each	2.00		
6.2	Supply and installation of new toilet, including removal of existing unit, sanitary seal, supply valve, seat, accessories, and connection to existing piping (Bathrooms 1 and 2)	each	2.00		
6.3	Supply and installation of new lavatory with faucet, trap, control valves, accessories, and connection to cold-water and drainage piping, including short PVC/CPVC pipe section as per design (Bathrooms 3 and 4)	each	2.00		
6.4	Supply and installation of new toilet with sanitary seal, supply valve, seat, accessories, and connection to existing piping, including short PVC pipe section for drainage if applicable (Bathrooms 3 and 4)	each	2.00		
6.5	Supply and installation of complete shower system, including mixer valve, shower arm, showerhead, control valves, access box, connection to cold and hot water piping (if applicable), and drainage with trap and PVC piping, maximum length 3 m as per design	each	2.00		
6.6	Supply and installation of waterproofing membrane on shower walls and floor, applied in two coats, moisture-resistant and compatible with ceramic tile	lump sum	1.00		
TOTAL - PLUMBING AND SANITARY INSTALLATIONS					
CLIN 7	MINOR AND COMPLEMENTARY WORKS OF THE PROJECT				
7.1	Construction of kitchenette (<i>Kitchen cabinet shall be provided and installed according to the measurements shown in the blueprint, including a preformed high-pressure Formica</i>	each	1.00		

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	<i>worktop, lower kitchen cabinet with doors, sink basin and accessories, wall-mounted upper cabinet, and open microwave space. Cabinetry shall be finished in wood or solid-color LPAP, include post-formed top with backsplash/fender, internal shelves, stainless-steel metal fixing accessories, door pulls/knockers, with all materials new, durable, cleanable, moisture-resistant, and suitable for office kitchenette use.)</i>				
7.2	Construction of bathroom sink basin with shower area	each	2.00		
TOTAL - MINOR AND COMPLEMENTARY WORKS OF THE PROJECT					
CLIN 8	MANUAL ROLLER SHADES				
8.1	Supply and installation of manual roller shades (Sunscreen/Blackout), including manual mechanisms, metal brackets, bottom bar, and accessories, for existing perimeter windows. Installation will depend on the final configuration of gypsum board office partitions. Measurements shall follow existing window sections or permissible lengths for proper roller shade operation	m2	80.00		
CLIN 9	HVAC SYSTEM				
9.1	CONDENSING UNIT				
9.1.1	Supply and installation of a VRF type condensing unit under AHRI standard regulations. UC-01 electrical specifications 208/230V-60HZ-3ph, refrigerant R-410a. LG brand, model ARUV241BTE (Similar or superior to reference brand) . Includes support bases, electrical connections, control connections, copper pipe connections, coolant charge, neoprene type anti-vibrators, labeling, testing and adjustment. All as indicated in plans, equipment table and technical specifications.	Lot	1.00		
Sub-Total - Condensing Unit					
9.2	EVAPORATOR UNITS-UC-01				

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9.2.1	Supply and installation of cassette evaporator unit type VRF nomenclature CS-01, CS-02, CS-03, CS-10, CS-07. LG brand, model ARNU18GTTB4 (Similar or superior to reference brand and model) . With electrical specifications of 230V-60Hz-1ph. Includes mounting, brackets, electrical and control connections, labeling, functional testing and final adjustment. All work will be carried out in accordance with the plans, equipment table and technical specifications.	each	5.00		
9.2.2	Supply and installation of evaporator unit Cassette type VRF nomenclature CS-08, CS-11. LG brand, model ARNU12GTUB4 (Similar or superior to reference brand and model) . With electrical specifications of 230V-60Hz-1ph. Includes mounting, brackets, electrical and control connections, labeling, functional testing and final adjustment. All work will be carried out in accordance with the plans, equipment table and technical specifications.	each	2.00		
9.2.3	Supply and installation of evaporator unit Cassette type VRF nomenclature CS-04, CS-06. LG brand, model ARNU24GTBB4 (Similar or superior to reference brand and model) . With electrical specifications of 230V-60Hz-1ph. Includes assembly, brackets, electrical and control connections, labeling, functional testing and final adjustment. All work will be carried out in accordance with the plans, equipment table and technical specifications.	each	2.00		

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9.2.4	Supply and installation of evaporator unit Cassette type VRF nomenclature CS-05. LG brand, model ARNU48GTAB4 (Similar or higher than reference brand and model) . With electrical specifications of 230V-60Hz-1ph. Includes mounting, brackets, electrical and control connections, labeling, functional testing and final adjustment. All work will be carried out in accordance with the plans, equipment table and technical specifications.	each	1.00		
9.2.5	Supply and installation of evaporator unit Cassette type VRF nomenclature CS-09. LG brand model ARNU36GTAB4 (Similar or superior to reference brand and model) . With electrical specifications of 230V-60Hz-1ph. Includes mounting, brackets, electrical and control connections, labeling, functional testing and final adjustment. All work will be carried out in accordance with the plans, equipment table and technical specifications.	each	1.00		
9.2.6	Supply and installation of ø 1/4" diameter flexible copper pipe. Haike brand. Includes mounting, 3/4" thick thermal insulation, bracket, fittings, nitrogen oxyacetylene welding, leak testing, vacuum testing, and adjustments. All as indicated in plans, equipment table and technical specifications.	Ft	80.70		
9.2.7	Supply and installation of ø 3/8" diameter type L ACR copper pipe. Haike brand. Includes mounting, 3/4" thick thermal insulation, bracket, fittings, nitrogen oxyacetylene welding, leak testing, vacuum testing, and adjustments. All as indicated in plans, equipment table and technical specifications.	Ft	126.00		

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9.2.8	Supply and installation of ø 1/2" diameter type L ACR copper pipe. Haike brand. Includes mounting, 3/4" thick thermal insulation, bracket, fittings, nitrogen oxyacetylene welding, leak testing, vacuum testing, and adjustments. All as indicated in plans, equipment table and technical specifications.	Ft	84.40		
9.2.9	Supply and installation of ø 5/8" diameter ø L-type ACR copper pipe. Haike brand. Includes mounting, 3/4" thick thermal insulation, bracket, fittings, nitrogen oxyacetylene welding, leak testing, vacuum testing, and adjustments. All as indicated in plans, equipment table and technical specifications.	Ft	92.20		
9.2.10	Supply and installation of ø 3/4" diameter type L ACR copper pipe. Haike brand. Includes mounting, 3/4" thick thermal insulation, bracket, fittings, nitrogen oxyacetylene welding, leak testing, vacuum testing, and adjustments. All as indicated in plans, equipment table and technical specifications.	Ft	36.70		
9.2.11	Supply and installation of ø 7/8" diameter ø L-type ACR copper pipe. Haike brand. Includes mounting, 3/4" thick thermal insulation, bracket, fittings, nitrogen oxyacetylene welding, leak testing, vacuum testing, and adjustments. All as indicated in plans, equipment table and technical specifications.	Ft	15.70		
9.2.12	Supply and installation of ø 1 1/8" diameter L-type ACR copper pipe. Haike brand. Includes mounting, 3/4" thick thermal insulation, bracket, fittings, nitrogen oxyacetylene welding, leak testing, vacuum testing, and adjustments. All as indicated in plans, equipment table and technical specifications.	Ft	3.60		

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9.2.13	Supply and installation of ø 1 3/8" diameter type L ACR copper pipe. Haike brand. Includes mounting, 3/4" thick thermal insulation, bracket, fittings, nitrogen oxyacetylene welding, leak testing, vacuum testing, and adjustments. All as indicated in plans, equipment table and technical specifications.	Ft	18.00		
9.2.14	Wireless remote control supply and programming. LG brand model PWLSSB21C (Similar or superior to reference brand and model).	each	11.00		
Sub-Total - Evaporator Units-UC-01					
9.3	SERVER AREA				
9.3.1	Supply and installation of 24,000 BTU MS-01 split wall air conditioner . LG frame model VK242C31 (Similar or superior to reference brand and model). With electrical specifications of 230V-60Hz-1ph. Includes installation of condenser and evaporator assembly, installation of refrigeration circuit (consider 60 ft distance between evaporator and condenser), installation of drain, brackets, electrical and control connections, labeling, functional tests and final adjustment. All work will be carried out in accordance with the plans, equipment table and technical specifications.	each	1		
Sub-Total - Server Areas					
9.4	EXTRACTION AND INJECTION SYSTEM				
9.4.1	HR-01 heat exchanger system. SICFLUX brand model CRS-200 of 300 CFM (Similar or superior to reference brand and model) for injection and extraction. With electrical specifications of 230V-60Hz-1ph. Includes mounting, brackets, electrical and control connections, labeling, functional testing and final adjustment. All as indicated in plans, equipment table and technical specifications.	Lot	1		

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9.4.2	Supply and installation of injection duct batch for the HR-01 unit. manufactured with rigid polyisocyanurate (PIR) foam panel coated with aluminum foil on both sides, 1" thick. Includes shoes, reductions, elbows, support, putty, and DB-01 balance dampers. All as indicated in plans, equipment table and technical specifications.				
9.4.3	Supply and installation of exhaust duct batch for the HR-01 unit. manufactured with rigid polyisocyanurate (PIR) foam panel coated with aluminum foil on both sides, 1" thick. Includes shoes, reductions, elbows, support, putty, and DB-01 balance dampers. All as indicated in plans, equipment table and technical specifications.	Lump Sum	1		
9.4.4	Supply and installation of a batch of flexible ducts of ø6" in diameter. Includes supports, connection bands. Includes system balancing. All as indicated in plans, equipment table and technical specifications.				
9.4.5	Supply and installation of a batch of flexible ducts of ø4" in diameter. Includes supports, connection bands. Includes system balancing. All as indicated in plans, equipment table and technical specifications.				
Sub-Total - Extraction and Injection System					
9.5	DIFFUSERS, GRILLES AND LOUVERS				
9.5.1	Supply and installation of DR-01 round diffuser. SICFLUX brand model RVA 4" (Similar or superior to reference brand and model). Includes box for installation with the same specifications as the duct, brackets. All as indicated in plans, equipment table and technical specifications.	Lump Sum	1		

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9.5.2	Supply and installation of DR-02 round diffuser. SICFLUX brand model RVA 6" (Similar or superior to reference brand and model). Includes box for installation with the same specifications as the duct, brackets. All as indicated in plans, equipment table and technical specifications.				
9.5.3	Supply and installation of RE-01 extraction grid. AIRGUIDE brand model RA 6"x6" (Similar or superior to reference brand and model). Includes box for installation with the same specifications as the duct, brackets. All as indicated in plans, equipment table and technical specifications.				
9.5.4	Supply and installation of RD-01 ejection grid. Brand AIRGUIDE model HV 12"x12"(Similar or superior to reference brand and model). Includes box for installation with the same specifications as the duct, brackets. All as indicated in plans, equipment table and technical specifications.				
9.5.5	Supply and installation of louver LV-01 . AIRGUIDE brand model OL2-FLANGE J 12"x12" . Includes box for installation with the same specifications as the duct, brackets. All as indicated in plans, equipment table and technical specifications.				
Sub-Total - Diffusers, Grilles and Louvers					
9.6	DRAINAGE PIPE NETWORK				
9.6.1	Supply and installation of schedule 40 PVC drainage network. Includes all diameters and accessories, condensate traps, connection to all evaporators, 1/2" thick thermal insulation, bracket, accessories, leak testing and adjustments. All as indicated in plans, equipment table and technical specifications.	Lot	1		
Sub-Total - Drainage Pipe Network					
9.7	CONTROL CIRCUIT				

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9.7.1	Supply and installation of centralized intelligent control for VRF system, includes, color LCD touch screen, weekly time programming, individual monitoring and control by zones, real-time alarms and diagnostics, friendly interface with intuitive navigation, BMS network connection (Modbus / BACnet available). includes control cable, EMT piping, electrical boxes, BX type ducting in the connection to equipment, support, control connections, labeling, testing and adjustments, all as indicated in drawings, equipment table and technical specifications of the project.	Lot	1		
9.7.2	Supply and installation of control circuit for all VRF system units, thermostats and central controller. Includes control cable, EMT pipe, electrical boxes, Bx type ducting in the connection to equipment, support, control connections, labeling, testing and adjustment. All as indicated in plans, equipment table and technical specifications.	Lot	1		
Sub-Total - Control Circuit					
9.8	VOLTAGE MONITORS				
9.8.1	Supply and installation of three-phase voltage monitor for capacitor.	each	1		
9.8.2	Supply and installation of single-phase voltage monitor for evaporator.	each	12		
Sub-Total - Voltage Monitors					
9.9	MAINTENANCE				
9.9.1	Preventive maintenance for VRF system installed at the American Embassy Office in location to be provided to the award recipient. Every 3 months for one year.	Visits	4		
Sub-Total - Maintenance					
TOTAL HVAC SYSTEM					
CLIN 10	EMERGENCY AND LIFE SAFETY SYSTEMS				
10.1	Supply and installation of portable fire extinguisher, ABC type, 10 lbs, including wall bracket, identification label, and placement according to NFPA 10	each	6.00		

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10.2	Supply and installation of illuminated emergency exit sign with LED lighting and built-in backup battery (minimum 90 minutes), including mounting hardware and functional testing	each	15.00		
10.3	Supply and installation of LED emergency light with dual adjustable heads and integrated backup battery (minimum 90 minutes), including mounting hardware and functional testing	each	25.00		
10.4	Supply and installation of photoelectric smoke detector, 24V or standalone as required, including base, wiring or battery, and functional testing according to NFPA 72	each	20.00		
10.5	Supply and installation of fixed-temperature heat detector for kitchen area, including base, wiring or battery, and functional testing according to NFPA 72	each	1.00		
10.6	Supply and installation of wall-mounted or ceiling-mounted exhaust fan, including ducting (if required), electrical connection, mounting hardware, and functional testing	each	8.00		
TOTAL EMERGENCY AND LIFE SAFETY SYSTEMS					
CLIN 11	DBA INSURANCE				
11.1	DBA Insurance				\$10,000.00
Contact Information:			SUBTOTAL	\$0.00	
Date:			Taxes (Exempt)	\$0.00	
Signature:			Overhead/Profit	\$0.00	
			TOTAL	\$0.00	

C.3.1. PRE-PROPOSAL SITE VISIT

Prior to submitting the price proposal, and in coordination with the COR, the Contractor shall visit the site for the verification of the design and construction practicality of the project. All measurements provided in this solicitation are estimates. The contractor is responsible for verifying all measurements by taking field measurements, confirm all necessary measurements and quantity takeoffs, discuss and request needed clarifications to develop the proposal and the BoQ. Any substantial discrepancies between estimates provided in this document and field measurements that could alter the contract price must be reported immediately to the CO.

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C.3.2. OTHER SITE VISIT

- a. The initial site visit shall be conducted in conjunction with either the CO or the COR.
- b. The final visit will be initiated upon completion of the project. The focus of the final visit is to verify the quality of work and that the work was performed in compliance with the contract documents and design drawings as approved by CO.

C.4. DELIVERABLES

Deliverable	Section	Due Date	Frequency	Distribution
CLIN 1 - Demolition, Dismantling, Removal and Disposal	C.4.2.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 2 - Architectural Works	C.4.3.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 3 - Doors	C.4.4.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 4 - Windows	C.4.5.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 5 - Electrical Installations	C.4.6.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 6 - Plumbing and Sanitary Installations	C.4.7.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 7 - Minor and Complementary Works of the Project	C.4.8.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 8 - Manual Roller Shades	C.4.9.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 9 – HVAC System	C.4.10.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 10 – Emergency and Life Safety System	C.4.11.	No later than 120 days after NTP	In accordance with the due date	INL COR
CLIN 11 - DBA Insurance	C.4.12.	30 days after Contract award	In accordance with the due date	INL COR

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C.4.1.DOCUMENTS PROVIDED FOR INFORMATIONAL PURPOSES

The Employer shall provide the contractor with a complete package of construction drawings and technical documents that are an integral part of this project, which contain the information necessary for the proper execution of the activities.

The blueprint set includes, but is not limited to:

- A-01 Existing Condition Plan Demolition plans of floors, walls and false ceiling
- A-02 Gypsum Board Wall Demolition Plan Plans of existing electrical installations
- A-03 Existing Floor Demolition Plan Intervention construction plans
- A-04 Door and Window Removal, Dismantling, and Final Disposal Plan Lighting and control plans
- A-05 Existing Suspended Ceiling Removal Plan
- A-06 Existing Electrical System Uninstallation Plan
- A-07 Proposed Architectural Plan
- A-08 Proposed Construction Plan
- A-09 Suspended Ceiling Installation Plan
- A-10 Lighting and Control Electric Plan
- A-10.1 (Technical Details of Electrical, Lighting, and Control Installations
- A-11 Electrical Power Plan
- A-11.1 Electrical Load Schedule and Technical Notes
- A-12 Floor Finish Plan
- A-13 Fire and Evacuation Plan
- A-14 Door Details and Hardware Schedule
- A-14.1 Door Hardware Details and Technical Notes
- A-15 Window Details and Schedule
- A-16 Hydro sanitary Plan
- A-17 HVAC Drainage and Control Plan
- A-18 HVAC Refrigerant Circuit Plan
- A-19 HVAC Ventilation System Plan
- A-20 HVAC Construction Details
- A-21 HVAC Equipment Schedule

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These documents contain technical details, construction criteria, symbology, load charts and engineering guidelines that must be considered during the execution of the project. The contractor shall be responsible for reviewing, interpreting, and verifying all information contained in these documents prior to commencing work.

C.4.2. CLIN 1 - Demolition, Dismantling, Removal and Disposal

The Contractor shall execute all demolition, dismantling, and removal activities as a controlled and sequential technical process aimed at preparing the project area for new construction works. These activities shall include, but not be limited to, the demolition of existing floor finishes, gypsum board partitions, suspended ceilings, and the removal of electrical, IT, doors, windows, and associated systems.

Execution shall be carried out in a manner that prevents damage to the structural elements of the building, including slabs, columns, and beams, as well as any systems that are to remain operational. The Contractor shall perform a prior site verification to identify existing conditions, active systems, and potential interferences, ensuring that all removals are executed safely and without unintended impacts.

Demolition of floor finishes shall include the complete removal of all layers down to a sound substrate, ensuring that no residual materials remain that could affect the adhesion of new finishes. The process shall be performed using controlled methods to avoid structural vibrations or surface damage.

Dismantling of gypsum board walls shall be executed progressively, beginning with the removal of embedded electrical and data systems, followed by panels and supporting metal framing. All anchoring elements and residues shall be removed, leaving surfaces clean and ready for subsequent works.

The removal of suspended ceilings shall be carried out systematically, ensuring that all integrated systems such as lighting, ductwork, and wiring are identified prior to removal. Panels and structural components shall be dismantled in a controlled manner to prevent accidental detachment or damage.

Electrical and IT systems shall be removed only after verification of de-energization, ensuring safety at all times. All components, including conduits, wiring, devices, and accessories, shall be fully removed.

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Doors and windows shall be carefully dismantled to avoid damage to structural openings. Their final disposition shall be determined solely by the Employer.

All waste materials shall be handled in accordance with building regulations, ensuring proper containment, transportation, and disposal in authorized locations. The Contractor shall coordinate logistics for waste removal, including the controlled use of elevators or emergency stairways, ensuring compliance with load limitations and protection of building infrastructure.

Hazardous Materials Investigation

No intrusive hazardous material survey has been performed as part of this project. Based on visual inspection, no evidence of damaged asbestos-containing materials, lead paint deterioration, mold, pipe insulation deterioration, or other hazardous building materials was observed within the intervention area.

If any suspect hazardous material is encountered during demolition or construction activities, the Contractor shall immediately stop work in the affected area, notify the COR, and shall not resume work until written authorization is provided. Handling, removal, transportation, and disposal of hazardous materials shall comply with applicable Honduran regulations and internationally accepted safety practices.

C.4.3. CLIN 2 - Architectural Works

The Contractor shall execute all architectural construction works required to develop the new spatial configuration of the project, including structural and non-structural elements, partitions, finishes, and integration of systems.

The construction of reinforced masonry walls shall be carried out as a structural extension anchored to the existing slab. This shall involve drilling and installing reinforcing steel bars using structural epoxy adhesives, ensuring proper load transfer between new and existing elements. Concrete elements such as tie beams and columns (soleras and castillos) shall be constructed using appropriate formwork, controlled material quality, and proper curing procedures to ensure structural integrity.

Gypsum board partitions shall be constructed as complete modular systems consisting of galvanized metal framing, double-sided panels, internal reinforcements, and fully treated joints. The Contractor shall coordinate all embedded installations prior to closing the walls, ensuring that electrical conduits, devices, and other systems are properly integrated.

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Cement board (durock) walls shall be installed in wet areas such as bathrooms, using moisture-resistant materials and corrosion-resistant fasteners. All joints shall be properly treated, and the system shall be prepared to receive ceramic finishes.

Floor finishes shall be installed over properly prepared substrates, ensuring that surfaces are level, clean, and free of voids. Porcelain tiles shall be installed using appropriate adhesives and spacing systems, guaranteeing alignment, uniform joints, and long-term durability. No installation shall proceed without prior approval of materials, colors, and finishes by the Employer.

Ceramic finishes in bathrooms shall include anti-slip flooring and wall tiles, installed using suitable mortars and adhesives, ensuring proper bonding and resistance to moisture.

Suspended ceilings shall be installed at the design height, approximately 2.45 meters, using a metal suspension system and modular panels. The installation shall be coordinated with electrical and HVAC systems to ensure all components are in place prior to closing the ceiling. The system shall allow accessibility for maintenance and remain free of deflections.

Painting works shall be executed using high-quality acrylic latex paint, suitable for interior environments, ensuring durability, uniform finish, and ease of maintenance. All surfaces shall be properly prepared, including sealing and priming, prior to final application.

C.4.4. CLIN 3 – Doors

The Contractor shall supply and install all doors required for the project, ensuring proper alignment, leveling, and functionality in accordance with the design requirements.

Doors shall be installed considering actual site conditions, including finished wall thicknesses, floor levels, and structural supports. Installation shall ensure proper anchorage to surrounding elements, particularly in cases where doors are integrated into reinforced walls.

All hardware, including hinges, locks, handles, and accessories, shall be installed in accordance with manufacturer specifications, ensuring durability and smooth operation. Special doors, such as security or reinforced doors, shall be properly integrated into structural elements to guarantee stability and performance.

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C.4.5. CLIN 4 - Windows

The Contractor shall supply, fabricate (if applicable), and install all window systems required for the project, including fixed glass panels, framed windows, and any associated aluminum or metal profiles, in accordance with the architectural design and project drawings.

All window installations shall be executed considering actual site conditions, including wall thickness, finished floor levels, and structural openings. Prior to installation, the Contractor shall verify all dimensions in the field to ensure proper fitting and alignment with surrounding elements.

Window systems shall be installed plumb, level, and square, ensuring proper anchorage to the structural or partition elements. The Contractor shall provide all necessary accessories for a complete installation, including anchors, fasteners, seals, gaskets, and finishing trims.

Glass elements shall be installed with adequate support and protection, ensuring stability, safety, and resistance to operational conditions. Where required, tempered or laminated glass shall be used in accordance with safety considerations and project requirements. The Contractor shall ensure that all glazing is free from defects such as scratches, distortions, or improper alignment.

Perimeter sealing shall be executed using appropriate sealants compatible with aluminum, glass, and adjacent materials, ensuring airtightness and preventing water or air infiltration. Special attention shall be given to joints between window frames and walls to avoid future deterioration or leakage.

Where privacy or solar control is required, the Contractor shall coordinate with the Employer for the selection and installation of films, coatings, or complementary systems.

All window systems shall be delivered fully installed, clean, and operational, without defects, misalignments, or functional issues.

C.4.6. CLIN 5 - Electrical Installations

The Contractor shall execute a complete electrical system, including power distribution, lighting, control systems, and all associated components necessary for full operation of the project.

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The scope includes the installation of the electrical service connection from the main building panel to the project area, the installation of a main disconnect switch, and the installation of load centers for lighting (24 spaces) and power (36 spaces).

All feeders, branch circuits, and distribution systems shall be installed using properly sized copper conductors, installed within conduit systems, and in accordance with electrical best practices. The Contractor shall be responsible for verifying load calculations, balancing circuits, and ensuring safe and efficient operation.

Lighting systems shall include different types of fixtures as indicated in the plans, and shall be installed in coordination with the ceiling system. Switches, outlets, and dedicated circuits shall be installed as required, ensuring proper functionality and compliance with operational requirements.

The entire system shall be tested and delivered fully energized, operational, and free of defects.

C.4.7. CLIN 6 - Plumbing and Sanitary Installations

The Contractor shall execute all plumbing and sanitary works required to adapt existing bathrooms and construct new functional systems, including water supply, drainage, and fixture installation.

Existing bathrooms shall be upgraded by replacing fixtures such as sinks and toilets, using existing connections where feasible. New bathrooms shall include installation of piping, connections, and fixtures, including lavatories, toilets, and showers.

The Contractor shall ensure proper leveling, alignment, and connection of all fixtures, including valves, traps, and accessories. All piping systems shall be leak-free and properly supported.

Showers shall be fully equipped, including mixing valves, showerheads, drains, and traps, with proper connection to the drainage system. Waterproofing shall be applied in shower areas using suitable membrane systems on both walls and floors to prevent water infiltration.

The final system shall be fully operational, meeting all functional and sanitary requirements.

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C.4.8. CLIN 7 - Minor and Complementary Works of the Project

The Contractor shall execute all minor and complementary works required to ensure the complete functionality of the project, including but not limited to construction of utility elements such as sinks, kitchenette areas, or other installations as required by the Employer.

These works shall be executed in accordance with specific instructions provided during the project, ensuring compatibility with existing systems and overall design.

The Contractor shall consider all necessary materials, connections, and finishes required to deliver these elements fully operational.

C.4.9. CLIN 8 - Manual Roller Shades

The Contractor shall supply and install manual roller shades in designated areas, ensuring proper fitting, alignment, and operation.

Installation shall consider window dimensions, mounting conditions, and user operation requirements. The system shall be securely anchored and allow smooth manual operation.

Materials shall be of adequate quality to ensure durability, proper light control, and compatibility with the interior environment.

C.4.10. CLIN 9 – HVAC System

Air Conditioning and Ventilation System Description

The project includes a direct variable refrigerant volume (VRF) expansion system of high energy efficiency for the air conditioning of the Offices.

The system will be composed of:

- a. An approved LG Multi V 5 VRF condensing unit or equivalent.
- b. Eleven cassette-type indoor evaporator units of different configurations:
 - 4-way cassette.
 - 4-way Dual Vane cassette.
 - 2-way cassette.
 - 1-way cassette.
- c. Thermally insulated ACR type L copper cooling pipe network.
- d. Individual control system using wired controllers.
- e. Y-Branch type refrigerant diversions.

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- f. Mechanical ventilation system with energy recovery by means of HRV type heat recovery.
- g. Air extraction system for sanitary services.
- h. External air injection system treated by energy recovery.
- i. Pre-insulated rigid polyisocyanurate ducting for ventilation air distribution.
- j. Grilles, diffusers and louvers for air intake and discharge.

The system has been designed to provide adequate conditions of thermal comfort, ventilation and indoor air quality in accordance with the criteria established by ASHRAE.

Design Conditions

- External Conditions

The exterior design conditions used for the project correspond to ASHRAE meteorological data for the city of Tegucigalpa, Honduras.

- Outdoor dry bulb temperature: 31°C
- Outdoor Wet Bulb Temperature: 23°C
- Approximate altitude: 3,250 feet above sea level.

- Interior Conditions

The climate-controlled areas have been designed to maintain the following conditions:

- Indoor temperature: 23°C ± 1°C
- Relative humidity: 50% ± 10%
- Average air speed: Less than 50 feet per minute in the occupied area.

Work to Be Executed

The contractor shall be responsible for the supply, installation, testing and commissioning of the following components:

- a. VRF condensing unit.
- b. Cassette type evaporators.
- c. HRV type energy recovery.
- d. Wired controllers.
- e. Y-Branch type deriviers.
- f. Pre-insulated polyurethane ducts 20 mm thick.
- g. Flexible connection ducts.
- h. Extraction grids.
- i. Air supply diffusers.

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- j. Exterior louvers.
- k. Support for equipment, ducts and pipes.
- l. ACR copper pipe for refrigeration.
- m. Closed-cell elastomeric insulation.
- n. PVC pipe for condensate drainage.
- or. Control ducts and wiring.
- p. Duct sealants.
- q. Identification and labeling of equipment and pipes.
- r. Additional refrigerant charge required by the manufacturer.
- s. Balancing and adjusting ventilation systems.
- t. Certified start-up by trained personnel.

Considerations for Bids

Bidders must previously verify all the existing conditions on site before submitting their proposal.

The submission of a bid implies that the contractor fully understands the scope of the work and accepts responsibility for the proper functioning of the system supplied.

Any replacement of equipment must be approved in advance by the project supervisor.

Alternative equipment shall meet or exceed the capacities, efficiencies, technical characteristics, and operating conditions indicated in the design documents.

Generation of the Plans

The design drawings show the general layout of the systems and should be used in conjunction with these specifications.

Before starting work, the contractor must prepare workshop drawings for approval, including:

- Definitive pipeline routes
- Support
- Interference with other disciplines
- Pipeline
- Equipment
- Maintenance Accesses

At the end of the project, "As Built" drawings must be submitted in AutoCAD and PDF digital format.

Communications

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The contractor must permanently coordinate with the supervision and administration of the project to schedule:

- Entry of materials.
- After-hours work.
- Functional tests.
- System booting.
- Swinging.
- Training.

All technical inquiries must be made in writing.

Operation and Service Manual

As a prerequisite to the final acceptance of the project, the contractor must deliver to the owner three complete sets of the Operation and Maintenance Manual, one printed and two digital in PDF format.

The manual must include at least:

- a. General index.
- b. Description of the systems installed.
- c. One-line control diagrams.
- d. Refrigeration diagrams.
- e. As-Built Floor Plans.
- f. Manufacturer's manuals for all equipment supplied.
- g. Technical catalogues.
- h. Approved submittals.
- i. Operating procedures.
- j. Preventive maintenance procedures.
- k. Corrective maintenance procedures.
- l. Equipment table with:
 - Code according to plans.
 - Brand.
 - Model.
 - Serial number.
 - Voltage.
 - Amperage.
 - Capacity.
 - Coolant.
 - Air flow.
 - Date of installation.
- m. Recommended list of spare parts.

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- n. Warranties issued by manufacturers and contractors.

Testing

All systems must be fully tested prior to acceptance of the work.

The minimum tests required will be:

1. Leak tightness tests of refrigeration pipes.
2. Vacuum tests.
3. Coolant charge verification.
4. Verification of drains.
5. Control tests.
6. Ventilation tests.
7. Air balancing.
8. Functional tests of the energy recuperator.
9. Continuous operation tests for a minimum period of eight hours.
10. Verification of alarms and protections.

Refrigeration Testing

Pipes should be tested with dry nitrogen.

- Minimum Test Pressure: 550 psig
- Minimum duration: 24 hours

Pressure losses attributable to leaks will not be accepted

Vacuum

After the pressure test is passed, deep vacuum will be performed using two-stage vacuum pump.

- Maximum Allowable Vacuum: 500 microns

The pressure should be kept stable for a minimum of one hour.

Air Balancing

The contractor shall measure and record:

- Supply flow.
- Extraction flow.
- External air flow.
- Static pressures.

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The maximum acceptable deviation will be $\pm 10\%$ with respect to the design values.

Warranties

The contractor will guarantee the entire installation for a minimum period of one year from the final acceptance of the project.

The guarantee must cover:

- Equipment.
- Materials.
- Labor.
- Controls.
- Pipes.
- Pipelines.
- Accessories.

The manufacturer's warranties must be transferred to the owner.

Staff Training

Prior to final acceptance, the contractor must provide technical training to the personnel designated by the owner.

Training will include:

- a. Normal system operation.
- b. Programming of controls.
- c. Alarm identification.
- d. Start-up and shutdown procedures.
- e. Filter cleaning.
- f. HRV system operation.
- g. Basic maintenance procedures. The minimum duration will be eight hours.

Reception of the Work

Provisional acceptance will be carried out once the following activities have been completed:

- Complete installation.
- Satisfactory tests.
- Swinging.
- Delivery of manuals.
- Training.

The final acceptance will be made once the observation period established by the owner has elapsed.

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C.4.11. CLIN 10 - Emergency and Life Safety System

Portable Fire Extinguishers (ABC Type, 10 lbs)

The Contractor shall supply and install portable fire extinguishers, ABC type, 10 lbs, including wall-mounted brackets, identification labels, and placement according to **NFPA 10**. Extinguishers shall be new, certified, and installed at accessible heights and visible locations.

Illuminated Emergency Exit Signs (LED with Backup Battery)

The Contractor shall supply and install illuminated emergency exit signs with LED lighting and integrated backup battery (minimum 90 minutes). Units shall include mounting hardware, directional arrows as required, and shall comply with **NFPA 101 Life Safety Code**. Functional testing shall be performed after installation.

LED Emergency Lights (Dual-Head with Backup Battery)

The Contractor shall supply and install LED emergency lighting units with dual adjustable heads and integrated backup battery (minimum 90 minutes). Installation shall include mounting hardware, electrical connection, and functional testing to ensure proper illumination during power failure.

Photoelectric Smoke Detectors

The Contractor shall supply and install photoelectric smoke detectors, 24V or standalone as required, including mounting base, wiring or battery, and testing in accordance with **NFPA 72**. Devices shall be installed at the locations shown on the drawings and coordinated with ceiling finishes.

Fixed-Temperature Heat Detector (Kitchen Area)

The Contractor shall supply and install a fixed-temperature heat detector for the kitchen area, including mounting base, wiring or battery, and testing in accordance with **NFPA 72**. The detector shall be suitable for high-temperature environments and resistant to humidity and grease.

Exhaust Fans (Wall/Ceiling Mounted)

The Contractor shall supply and install wall-mounted or ceiling-mounted exhaust fans, including ducting (if required), electrical connection, mounting hardware, and functional testing. Fans shall comply with airflow requirements indicated in the drawings and shall be suitable for continuous or intermittent operation as required.

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C.4.12. CLIN 11 - DBA Insurance

Defense Base Act (DBA) Insurance – DBA insurance is required for all United States citizens or residents and individuals hired in the United States, regardless of citizenship for any construction and services for U. S. overseas contracts over US\$3,500.00. DBA insurance is also required for all Host Country Nationals (HCNs) and Third Country Nationals (TCNs) working overseas unless waved by the Department of Labor (DOL). Only the countries listed currently on the DOL's Active DBA Waivers are not required to have DBA insurance for Host Country Nationals (HCNs) and Third Country Nationals (TCNs). See website for country waivers: <https://www.dol.gov/owcp/dlhwc/dbawaivers/dbawaivers.htm>). The waiver is only valid if alternative worker's compensation benefits are provided to the waived employees pursuant to applicable local law. If there are no local worker's compensation laws, the waiver has no effect and HCN and TCN (if applicable by local law) working under a U. S. contract shall be included and covered under the DBA.

The DBA insurance may be obtained from any authorized DBA insurance broker, see Sub-Section I.14, FAR 52.228-3 WORKER'S COMPENSATION INSURANCE (DEFENSE BASE ACT) (APR 1984). New DBA insurances policies can be purchased directly from any DOL approved insurance carrier. A list of DOL approved carriers may be found at <http://www.dol.gov/owcp/dlhwc/lscarrier.htm>.

The Contractor will be reimbursed for DBA only to the extent the contractor provides documentary proof that DBA has been paid and only to the extent quoted in the Pricing Schedule.

DBA insurance cost will be evaluated as part of the total evaluated fixed price and included in the fixed price of the contract. Where DBA is applicable, the Contractor will be required to provide evidence of insurance (certification of coverage and a paid invoice) within 15 calendar days from the date of award.

<Host Country> is not currently included on the DOL's active waiver list, therefore DBA insurance is required for all employees working on the contract

C.5. PAYMENT SCHEDULE

This is a firm fixed-price contract. No additional sums will be payable due to Contractor's failure to properly estimate the contract price. Advance payment shall

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not be authorized. The payment shall be approved upon field verification of the completed work. Contractor shall submit the invoices no later than the 15th calendar day of the following month (for the previous calendar month's field verified work).

C.6. GENERAL REQUIREMENTS

The Contractor shall:

1. Adhere to all applicable local construction codes and/or the International Building Codes (IBC) (whichever is the most stringent) as applicable when performing the construction activities. Exceptions to using the code must be requested in writing and approved by the Contracting Officer (CO) or their designated representative.
2. Observe all local current labor safety laws and regulations for the protection of employees and the public on or in close proximity to the work site who could be affected by the execution of the job directly or indirectly.
3. Abide by the norms established by the project petitioner, in reference to the entrance and exits of personnel, identification, vehicle circulation, time schedules and permits in coordination with the building manager.
4. Be responsible for the supply of the materials, fixtures, construction equipment, tools, and labor necessary/required to complete the construction.
5. Be responsible for the functionality, durability appearance, and proper installation of materials, equipment, and fixtures.
6. Be responsible for the condition of the project site, the project structure, project site contents, and project appearance and shall guard against any deterioration or damage until the final acceptance of the works by the CO.
7. Be solely responsible for the quality of the work whether done by his direct employees or subcontractors and, therefore, repair any damage, defect, or improperly completed parts of the work including subpar finish work. The contractor shall ensure the quality of the works according to the contract, COR's instructions and the quality standards. The Contractor is responsible for the correction, at Contractor' cost, of any defects or substandard work for the project. The acceptance of work by the CO will not exempt the Contractor from complying with codes and norms corresponding to design and construction. The Contractor must check the designs parameters given by

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requesting office and if errors or inconsistencies are observed, the Contractor must inform the COR immediately.

8. Institute an appropriate inspection system and perform consistent quality control oversight checks to verify the implementation of the contract and the COR's instructions.
9. Review, revise, update, and report on the progress of site activities according to the performance schedule.
10. Perform mobilization and demobilization activities. Remove all debris and residues from the project site to the satisfaction of the COR.
11. Expediently completed the defects in the punch list prior to acceptance.
12. The Contractor shall include in their cost proposal all site visits required for the construction
13. Contractor shall provide weekly updates of accomplishments, plans of actions, outstanding tasks, problems encountered and solutions, recommendations for process improvements regarding assigned tasks, and future or projected tasks or issues.
14. The Contractor shall provide quality product with a written one-year construction warranty.
15. The Contractor shall be registered and hold a business license from local authorities. Proof of licensure must be provided with the proposal.

C.7. DEFINITIONS

- INL– International Narcotics and Law Enforcement
- DoS – Department of State
- NTP – Notice to Proceed
- POC – Point of Contact
- PoP – Period of Performance
- SOW – Statement of Work
- USG – United States Government
- CO – A Contracting Officer is the US Government official with the legal authority to enter into, administer, modify, and/or terminate contracts. The CO's warrant designates responsibilities and limits.
- COR – A *Contracting Officer's Representative* is an individual designated in accordance with DFARS subsection [201.602-2](#) and authorized in writing by

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the Contracting Officer to perform specific technical or administrative functions. It will specify the extent of the COR's authority to act on behalf of the contracting officer. 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. The COR may provide technical advice, substantive guidance, inspections, invoice approval, and other purposes as deemed necessary under the contract. The COR is designated as the authority to act for the Contracting Officer in matters concerning technical clarification, inspection, and acceptance of the Contractor's performance under this contract. The COR will coordinate all work with the Contractor during the term of this contract. In no instance is the COR authorized to alter the contract's terms or conditions, including the design to budget parameter. Such changes must be authorized by the Contracting Officer in a written modification to the contract.

C.8. TASK ESPECIFICATIONS

C.8.1. DEMOLITION OF EXISTING FLOOR

Technical Execution of the Activity

The demolition of the existing floor must be carried out in a controlled and sequential manner, including the total removal of the existing surface finish, adhesive residues, glue mortars, deteriorated leveling layers and any loose or contaminated material that prevents the correct adherence of the new floor system. The procedure must begin with a detailed inspection of the area to identify joints, changes in level, transition points with other elements, hidden conduits or interference with existing installations. The demolition will be carried out by manual or light mechanical means, avoiding excessive impacts that may crack the slab or affect structural elements. The contractor must maintain permanent control of dust, noise and vibrations, especially since it is an intervention within a building in operation. Once the finish has been removed, the surface must be clean, firm, free of residues and suitable to receive the new levelling or floor installation work. Any damage caused to the slab, adjacent walls, facades or facilities must be repaired by the contractor at

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no additional cost to the Employer. This activity must be understood as integral and include perimeter cutting, removal, loading, internal hauling, transport and final disposal of waste. The demolition plan indicates a reference area of 333.43 m².

C.8.2. DEMOLITION DRYWALL WALLS

Technical Execution of the Activity

The demolition of light plasterboard walls must be carried out once the surface elements and accessories that may interfere with the work have been removed. The contractor must first dismantle doors, frames, glass, visible electrical installations, network points, associated luminaires and any other recessed elements, in order to avoid unnecessary damage and allow an orderly removal of the profiles and panels. The methodology must contemplate the progressive removal of panels, metal structure, anchors and reinforcements, taking care at all times not to damage slabs, columns, facades, structural walls or installations to be preserved. Any remaining screws, bolts, profiles, fasteners, or sealants must be completely removed. The technical theory behind this activity is that a clean demolition not only frees up the space, but also defines the quality of the following stages, since a poorly prepared surface generates deviations in stakeout, irregular encounters and cost overruns in finishes. The reference area in plans for demolition of drywall walls is 215.03 m².

C.8.3. EXISTING FALSE CEILING DISMANTLING

Technical Execution of the Activity

The dismantling of the false ceiling must be carried out as a technical removal activity and not as a simple indiscriminate demolition. Before dismantling panels and profiles, the contractor must identify all the elements supported or embedded in the system, including luminaires, diffusers, extractors, detectors and associated wiring. The procedure must begin with the orderly removal of panels, followed by the disassembly of the suspended structure, tensioners, hangings and accessories. The technical reason for this order is to prevent detachments, falling hidden elements and damage to upper installations. Once the system is released, the area must be completely clear to facilitate inspection of slabs, electrical routes and future coordination between specialties. According to the corresponding plan, the area for the dismantling of the false ceiling is 333.43 m².

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The dismantling of the false ceiling must be carried out as a controlled technical process, starting with the removal of panels and then the suspended structure. Prior to its disassembly, the contractor must identify:

- Luminaires
- Pipelines
- Wiring
- Active Systems

This prevents damage to hidden installations and ensures safety during execution.

C.8.4. REMOVAL OF EXISTING ELECTRICAL SYSTEMS

Technical Execution of the Activity

Removal of the existing electrical system shall be executed safely, including:

- Luminaires
- Switches
- Electrical outlets
- Pipelines
- Wiring

The contractor must verify that the circuits are de-energized before intervening them. The entire system must be completely removed, avoiding leaving active or partially disconnected elements that represent a risk.

C.8.5. REMOVAL OF IT SYSTEM (DATA)

Technical Execution of the Activity

The contractor shall completely disassemble the existing structured cabling system, including cables, outlets, patch panels, and raceways. This activity must be carried out avoiding damage to infrastructure that will be reused or shared with the new system.

C.8.6. REMOVING DOORS AND WINDOWS

Technical Execution of the Activity

Existing doors and windows must be carefully dismantled, avoiding damage to:

- Frames
- Openings
- Structural elements

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Final disposition:

The disposition of these elements will be **the exclusive decision of the Contracting Party**, so the contractor must:

- Temporarily safeguard items
- Transport them if required
- Or arrange them according to formal instruction

C.8.7. DEMOLITION LOGISTICS AND WASTE MANAGEMENT

Scheduling jobs

Demolition, dismantling and removal activities should preferably be scheduled at **night**, due to:

- Operation of offices on lower levels
- Noise Impact
- Vibrations

The contractor must submit a **detailed work program**, which will be shared with the building management for approval.

Waste management – technical criteria

Waste management must be carried out avoiding:

- Damage to private property
- Structural overloads
- Interference with building operation

Option 1: Use of elevator

The use of the elevator must comply with:

- Authorized prior reservation
- Packaging of waste (sacks, containers)
- Internal elevator protection

Technical considerations:

- Do not exceed permissible lift loads
- Distribute loads evenly
- Avoid unprotected sharps

Option 2: Emergency Slipway Evacuation

It may be used as an alternative, considering:

- Dimensions verified on site or plans

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- Constant monitoring
- Coordination with administration

Collection and collection area

The contractor shall coordinate:

- Temporary storage location
- Vehicle entry times
- Loading and unloading flow

Everything must be approved by the building administration.

C.8.8. REINFORCED BLOCK WALLS

Technical Execution of the Activity

The construction of the reinforced wall must be executed as a structural system integrated into the existing slab, considering its function as a support for highly demanding elements such as armored doors. The process will begin with the staking out and drilling of the existing slab for the placement of anchors by means of reinforcement rods fixed with structural epoxy adhesive.

Subsequently, the following will be executed:

- **Anchored lower slab**
- **Vertical castles**
- **Upper Screed**

Adequate formwork must be used to guarantee dimensions, alignment and confinement of the concrete. The concrete must be of controlled quality, guaranteeing strength, adhesion and durability. This activity involves the structural integration between new and existing elements, so its execution must meet basic structural engineering criteria. The proposed reinforced wall should not be interpreted only as an enclosure, but as a rigid element intended to provide greater safety, impact resistance, support of heavy doors and better behavior against the intensive use of the area. Its execution must begin with the exact staking out of the axis of the wall, followed by drilling and anchoring to the existing slab by means of rods fixed with epoxy resin, respecting minimum depths and uniform separations. Subsequently, the lower slab, castles and upper slab will be executed according to dimensions and design reinforcements, guaranteeing structural continuity between the confining elements and the masonry. The blocks must be placed completely aligned, at sinker and level, with uniform mortar and reinforcement as indicated. Any cell that receives steel or filler must be completely cast and consolidated. This

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activity not only includes lifting blocks, but also integrating the complete system of anchoring, confinement and rigidity. In plans, a new reinforced wall with a reference area of 3.85 m² is identified.

Technical Specifications

- Concrete block 15x20x40 cm.
- Mortar ratio 1:4.
- Vertical reinforcement with rod #3.

Conditions

- Fully aligned walls.
- Uniform joints.

Measurement

m² built

C.8.9. DRYWALL WALLS

Technical Execution of the Activity

Drywall walls shall be executed as lightweight modular systems comprising:

- Metal structure (posts and screeds)
- Internal electrical installations
- Reinforcements for accessories
- Panels on both sides
- Total caulk finish

The contractor must simultaneously coordinate:

- Electrical installations
- Pipelines
- Location of accessories

Before the walls are closed, all installations must be complete and verified.

The new drywall walls must be executed as an integral light system, composed of galvanized profiles, anchors, panels, joint treatment, point reinforcements and final preparation for painting. Prior to its installation, the contractor must carry out an exact stakeout on the floor and slab, verifying encounters with columns, windows, frames, false ceilings and fixed furniture. The metal structure must be installed completely aligned and plumb, with uniform spacing between uprights and reinforcements in areas where doors, accessories, television stands, furniture or other suspended elements are located. The panels must be fixed with appropriate screws, taking care that the joints do not coincide unfavorably and that there are no buckling or deformations. Subsequently, the joints will be treated with tape and paste,

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applying the necessary layers until a continuous, stable and paint-friendly finish is achieved. The technical logic of this activity is that the lightweight system does not depend only on the panel, but on the correct modulation, rigidity and quality of the final treatment. The construction plan reports 132.26 m² of new drywall walls.

Drywall walls shall be executed as lightweight modular systems comprising:

- Metal structure (posts and screeds)
- Internal electrical installations
- Reinforcements for accessories
- Panels on both sides
- Total caulk finish

The contractor must simultaneously coordinate:

- Electrical installations
- Pipelines
- Location of accessories

Before the walls are closed, all installations must be complete and verified.

Technical Specifications

- Galvanized metal structure minimum caliber 26.
- Uprights:
 - Maximum spacing: 0.40 m – 0.60 m.
- Plates:
 - 1/2" in dry areas
 - 5/8" where greater strength is required
- Fastening with self-tapping screws.
- Gasket Treatment:
 - Tape + compound
 - Uniform sanding

Execution Conditions

- Aligned and plumb surfaces.
- Maximum tolerance: ± 3 mm.
- No deformation or vibrations will be allowed.

Metering & Payment

- m² of finished wall

Includes: structure, plates, screws, finish.

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C.8.10. DUROCK WALLS IN WET AREAS

Technical Execution of the Activity

Durock walls must be executed in areas exposed to humidity, especially bathrooms with showers, using a waterproof cementitious panel and compatible with ceramic coatings. The profiles must be galvanized and the screws resistant to corrosion. The joints should be sealed and treated according to the manufacturer's system, and in areas directly exposed to water, the appropriate waterproof treatment should be incorporated prior to veneer. From a technical point of view, this activity cannot be treated in the same way as a dry wall, as it is subjected to steam, splashing, thermal variations and frequent maintenance. Therefore, the SOW must make it clear that the contractor must deliver a stable, moisture-resistant support suitable for receiving veneer without cracks, detachments or deformations. The construction plan establishes 13.01 m² of durock wall.

Technical Specifications

- Moisture-resistant cementitious panel.
- Anticorrosive screws.
- Application of waterproof sealant on joints.

Conditions

- Mandatory use in bathrooms or wet areas.
- Surface ready for ceramic coating.

Measurement

- m² installed

C.8.11. INSTALLATION OF PORCELAIN TILES

Technical Execution of the Activity

The contractor shall install porcelain tile flooring in all areas indicated in the architectural drawings, corresponding to finish codes **FP-1, FP-2, and FP-3**. Installation shall ensure a level, uniform, void-free, and durable finish. Prior to installation, all substrate surfaces shall be properly prepared, leveled, and corrected to eliminate irregularities, cracks, protrusions, or contaminants that may compromise adhesion.

Only **porcelain-compatible high-performance adhesives** shall be used, applied strictly in accordance with the manufacturer's technical specifications. Due to the low absorption rate of porcelain tiles, the adhesive shall be **C2-type (high-performance)** per EN 12004 or equivalent ASTM standard, applied with a notched trowel and ensuring **a minimum 95% coverage** on the back of each tile.

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Tiles shall be installed using spacers to guarantee uniform joints, which shall be later filled with approved cementitious or epoxy grout. The design, color, and finish of the porcelain tile shall be defined by the Contracting Entity; therefore, the contractor must obtain formal approval before installation. Any work executed without prior approval will be rejected.

In bathrooms and wet areas (identified as **FP-2 zones**), ceramic or porcelain wall and floor finishes shall be installed, including **non-slip materials** in shower zones. The contractor is responsible for the correct preparation and application of mortars, adhesives, and grout, ensuring proper adhesion, waterproofing, and long-term performance.

Porcelain tile installation in general areas (**FP-1 zones**) shall be executed over a clean, firm, dry, and level substrate. Before placing tiles, the contractor shall verify flatness and correct any depressions, protrusions, or cracks that may affect modulation or adhesion. Installation shall follow reference axes, ensuring proper alignment, squareness, visual continuity, uniform joints, and clean transitions at walls, doors, and material changes. Reception and main entrance areas (**FP-3 zones**) shall use higher-grade porcelain tiles with enhanced wear resistance and aesthetic finish.

Defective tiles, hollow sounds, uneven surfaces, lippage, chipped edges, or visible modulation inconsistencies will not be accepted. This activity shall be understood as a complete system: substrate preparation, supply, installation, leveling, grouting, fine cleaning, and protection until final acceptance.

The total intervention area indicated in the drawings is **333.43 m²**.

Approved Manufacturers

The following manufacturers are approved for porcelain and ceramic finishes:

- **Porcelanosa**
- **Daltile**
- **Interceramic**
- **Lamosa**
- **Florim**

Equivalent manufacturers may be submitted for approval if they meet or exceed all minimum technical requirements.

Basis of Design

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The basis of design for this project is:

- **Rectified porcelain tile, 60x60 cm, matte or semi-gloss finish, 8–10 mm thickness** (Porcelanosa or equivalent)

This establishes the minimum acceptable standard for quality, appearance, and performance.

Minimum Technical Specifications

Porcelain Tile

- Type: Rectified porcelain tile, low absorption
- Size: 60x60 cm (or as shown in drawings)
- Thickness: 8–10 mm
- Water absorption: $\leq 0.5\%$
- Abrasion resistance: **PEI III or higher**
- Slip resistance in wet areas: **R10 or higher**
- Shade variation: V2 or V3 depending on manufacturer

Adhesive

- Type: Porcelain-compatible **C2 high-performance adhesive**
- Application: Notched trowel; back-buttering required for large-format tiles
- Minimum coverage: **95%** under each tile

Grout

- Cementitious or epoxy, depending on area
- Color approved by the Contracting Entity
- Moisture-resistant in wet areas

Substrate

- Flatness tolerance: **± 3 mm over 2 m**
- Clean, dry, firm, and free of dust, grease, or contaminants

Installation Conditions

- No slopes, lippage, or uneven joints will be accepted
- Substrate must be clean and dry before installation
- Installed flooring must be protected until final acceptance
- Perimeter and expansion joints must be respected

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- Waterproofing shall be applied in wet areas (where applicable)

Measurement

- Unit: **m² installed**

C.8.12. 2X2 MINERAL FIBRE SUSPENDED FALSE CEILING WITH INSULATION

Technical Execution of the Activity

The contractor shall install a suspended false ceiling system in accordance with the project design, maintaining an approximate finished height of **2.45 m**. The system shall consist of galvanized metal profiles suspended with appropriate hardware, ensuring perfect leveling, alignment, and structural stability.

This activity must be fully coordinated with the installation of **electrical, HVAC, fire protection**, and **low-voltage** systems. All ducts, trays, pipes, luminaires, diffusers, detectors, and equipment must be installed and tested **before** placing the ceiling panels. The system shall remain fully accessible for maintenance and shall not present deformation or sagging.

The suspended ceiling shall be installed as a modular technical system composed of:

- Galvanized exposed T-grid profiles
- Galvanized suspension wires
- 2'x2' mineral fiber acoustical ceiling tiles
- 30 mm glass wool thermoacoustic insulation

Prior to installation, the contractor shall:

- Establish and mark the final ceiling level around the perimeter
- Verify interferences with ducts, trays, pipes, luminaires, sprinklers, and other systems
- Coordinate exact locations of recessed equipment supported on or passing through the grid
- Ensure the grid is rigid, level, and free of visible deflections
- Install insulation continuously, avoiding acoustic bridges or displacement

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The false ceiling is considered a **technical architectural system**, contributing to acoustic absorption, visual uniformity, ease of maintenance, and coordination of building services. The area indicated in the drawings is **333.43 m²**.

Acceptable Manufacturers

The following manufacturers are approved for ceiling tiles and suspension systems:

- **Armstrong Ceiling Solutions**
- **USG Ceilings**
- **CertainTeed**
- **Rockfon**

Equivalent manufacturers may be submitted for approval if they meet or exceed all performance requirements.

Basis of Design

- **Armstrong Cortega 770**
 - 2'x2' mineral fiber acoustical tile
 - Square edge
 - White finish

This establishes the minimum acceptable standard for appearance and performance.

Minimum Technical Specifications

Ceiling Tiles

- Type: Acoustical mineral fiber
- Size: 2'x2' (600x600 mm)
- Thickness: Minimum 5/8"
- **NRC ≥ 0.55**
- **CAC ≥ 35**
- **Light reflectance ≥ 0.80**
- **Fire rating: Class A (ASTM E1264)**
- Humidity resistance: 95% RH
- Edge: Square lay-in

Suspension System

- Exposed T-grid, **15/16"**, galvanized steel

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- Heavy-Duty classification per **ASTM C635**
- Hanger wires: **12-gauge galvanized steel**
- **Maximum spacing: 1.20 m (4 ft)**
- Additional hangers required at:
 - Luminaires (must be independently supported)
 - Diffusers and grilles
 - Access panels
 - Any equipment supported by the grid

Insulation

- 30 mm glass wool thermoacoustic blanket
- Installed continuously without gaps
- Supported to prevent sagging

Installation Conditions

- Perfect leveling: **±2 mm**
- Compliance with **ASTM C636** installation standards
- Luminaires **shall NOT be supported by the ceiling grid**
- All penetrations must be coordinated with MEP trades
- Cut tiles must be clean, square, and fully supported
- Ceiling must remain removable for maintenance

Measurement

- Unit: **m² installed**

C.8.13. PAINTING

Technical Execution of the Activity

The contractor shall execute the complete painting works for all interior surfaces indicated in the drawings, using **high-quality interior acrylic latex paint** with adequate durability, washability, and resistance to wear. All surfaces shall be properly prepared prior to painting, including cleaning, sanding, patching, sealing, and priming as required.

The selection of colors and finishes shall be defined by the Contracting Entity, and the contractor must obtain formal approval before application. Any work performed

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without prior approval will be rejected. The final finish must be uniform, free of stains, roller marks, drips, or shade variations.

Before applying paint, the contractor shall ensure that all surfaces are clean, dry, dust-free, and free of grease, oils, or contaminants that may affect adhesion. For drywall surfaces, all joints must be fully treated, sanded, and finished to achieve a smooth, continuous surface (Level 4 finish minimum).

A **primer/sealer coat** shall be applied to regulate surface absorption and improve adhesion, followed by **a minimum of two coats of interior latex paint**. Each coat shall be applied evenly, respecting the manufacturer's recommended drying times. The contractor shall protect adjacent elements—floors, doors, frames, equipment, fixtures, and furniture—from paint splashes or damage during the process.

Painting works shall be coordinated with the installation of ceilings, lighting, HVAC diffusers, and other architectural finishes to avoid rework or damage.

Approved Manufacturers

The following manufacturers are approved for interior paint systems:

- **Sherwin-Williams**
- **Benjamin Moore**
- **PPG Paints**
- **Behr Professional**

Equivalent manufacturers may be submitted for approval if they meet or exceed the minimum technical requirements.

Basis of Design

The basis of design for interior paint is:

- **Sherwin-Williams ProMar 200 Zero-VOC Interior Latex** (or equivalent)

This establishes the minimum acceptable standard for quality, durability, and appearance.

Minimum Technical Specifications

General Interior Walls

- Paint type: Acrylic latex

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- Finish: **Eggshell or Satin** (NO matte/flat finishes allowed except in electrical/server rooms)
- Minimum system:
 - 1 coat primer/sealer
 - 2 coats finish Paint

Electrical/Server Room

- Finish: **Matte/Flat** permitted
- Low-VOC paint required

Metal Doors and Frames

- Surface preparation: Clean, sand, remove rust
- Primer: **Anti-corrosive metal primer**
- Finish: **Oil-based enamel or industrial alkyd enamel**
- Minimum system:
 - 1 coat metal primer
 - 2 coats enamel Paint

Wooden Doors and Frames

- Primer: **Wood sealer or alkyd primer**
- Finish: **Latex enamel or polyurethane-based finish**
- Minimum system:
 - 1 coat primer
 - 2 coats enamel

Concrete or Block Walls

- Preparation: Cleaning, patching, sanding
- Primer: **Masonry sealer**
- Finish: **Acrylic latex (eggshell or satin)**
- Minimum system:
 - 1 coat masonry sealer
 - 2 coats finish Paint

Ceilings

- Finish: **Flat white**
- Minimum system:

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- 1 coat primer
- 2 coats flat latex

Installation Conditions

- Surfaces must be dust-free, dry, and properly prepared
- Uniform finish with no stains, roller marks, or shade variations
- Adequate ventilation during application and drying
- Protection of adjacent surfaces is mandatory
- Respect manufacturer drying times between coats
- No painting over wet, dirty, or unprepared surfaces

Measurement

- Unit: **m² painted**

C.8.14. DOORS AND WINDOWS

Technical Execution of the Activity

The contractor shall supply and install all doors and windows in accordance with the approved project drawings and schedules, ensuring proper alignment, leveling, and smooth operation. Installation shall comply with technical criteria guaranteeing frame stability, structural anchorage, and correct integration with adjacent finishes.

All doors and windows shall be considered **complete finished systems**, including frames, panels, glazing, seals, hardware, hinges, closers, locks, and accessories. Prior to fabrication or installation, the contractor shall verify all site dimensions, wall thicknesses, floor levels, ceiling heights, and actual support conditions. Installation shall ensure plumb, level, square, and firm fixation to the structure or prepared opening.

Special attention shall be given to the continuity of seals, privacy finishes, and the correct operation of sliding or swing mechanisms. For security or restricted-access doors, proper integration with reinforced walls and biometric access systems shall be ensured, guaranteeing durability and resistance under intensive use.

Approved Manufacturers

The following manufacturers are approved for metal, aluminum, and glass systems:

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- **Assa Abloy** (door hardware and closers)
- **Dormakaba** (electromagnetic locks and access control)
- **Yale / Schlage** (commercial locksets and privacy locks)
- **Vitro / Guardian Glass** (architectural glass)
- **Alusystem / Technal / Kawneer** (aluminum framing systems)

Equivalent manufacturers may be submitted for approval if they meet or exceed all technical and performance requirements.

Basis of Design

The basis of design for this project is:

- **Doors:** Commercial-grade aluminum and glass doors with lever handle locksets, hydraulic closers, and biometric access control (where applicable).
- **Windows:** Heavy-duty black aluminum frames with ¼" thick tempered glass, natural finish, and sandblast privacy strip.

This establishes the minimum acceptable standard for quality, appearance, and performance.

Minimum Technical Specifications

Doors (Codes P-1 to P-10)

- **Frame Material:** Aluminum or metal frame, anodized or powder-coated finish.
- **Panel Material:** Tempered glass or solid wood, depending on location.
- **Lock Types:** Electromagnetic, cylindrical, privacy, or sliding lockset per schedule.
- **Access Control:** Biometric reader for restricted areas (P-1, P-3, P-7).
- **Closers:** Hydraulic type for heavy-duty or high-traffic doors.
- **Fire Rating:** As specified in schedule (P-3 only).
- **Hardware:** Commercial-grade lever handles, reinforced pivots, and recessed sliding kits where applicable.
- **Installation:** Anchored to structural frame with concealed fasteners; ensure smooth operation and alignment.
- **Finish:** Natural anodized aluminum or painted metal; privacy glass for restrooms and meeting rooms.

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Windows (Codes V-01 to V-06)

- **Frame Material:** Heavy-duty black aluminum, thermally broken profiles.
- **Glass:** ¼" thick tempered glass with natural finish and sandblast privacy strip.
- **System Type:** Two-panel or three-panel sliding system per schedule.
- **Sealant:** Continuous silicone perimeter seal, UV-resistant.
- **Hardware:** Aluminum handles, rollers, and locking system.
- **Installation:** Level, plumb, and sealed against water infiltration; coordinate with façade and ceiling junctions.
- **Finish:** Black anodized or powder-coated aluminum, uniform across all units.

Installation Conditions

- Verify all openings before fabrication.
- Ensure proper alignment, level, and square during installation.
- Protect glass and aluminum surfaces from scratches or damage.
- Maintain continuity of sealant and privacy finishes.
- Coordinate installation with adjacent trades (HVAC, electrical, ceiling).
- Deliver all doors and windows fully operational and clean at handover.

Measurement

- **Doors:** Unit per installed door (ea).
- **Windows:** Square meters (m²) installed.

Window Blinds

The contractor shall supply and install high-quality manual roller blinds on all windows indicated in the drawings, ensuring proper alignment, smooth operation, and durability under frequent use. Blinds shall be installed after window completion and final cleaning, coordinated with ceiling and wall finishes.

Each blind shall be mounted with concealed brackets and stainless-steel or aluminum components, ensuring firm fixation and easy maintenance. The system shall allow smooth manual operation with a continuous chain mechanism and shall include a safety lock to prevent accidental release. All blinds shall be installed level, square, and free of wrinkles or misalignment.

The contractor shall verify all window dimensions on site prior to fabrication and ensure compatibility with the window frame system. The installation shall guarantee

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uniform appearance, privacy control, and light management according to the design intent.

Approved Manufacturers

The following manufacturers are approved for roller blind systems:

- **Hunter Douglas**
- **MechoShade Systems**
- **Levolor**
- **Lutron (manual or motorized systems)**

Equivalent manufacturers may be submitted for approval if they meet or exceed all technical and durability requirements.

Basis of Design

The basis of design for this project is:

- **Hunter Douglas Roller Shade Series 5**, manual operation, 5% openness fabric, fiberglass core with PVC coating, aluminum tube, and stainless-steel chain.

This establishes the minimum acceptable standard for quality, appearance, and performance.

Minimum Technical Specifications

- **Type:** Manual roller blind system
- **Fabric:** Fiberglass/PVC composite, 5% openness, UV-resistant
- **Color:** Neutral tone (light gray or beige, to be approved by Contracting Entity)
- **Tube:** Extruded aluminum, diameter ≥ 38 mm
- **Mechanism:** Stainless-steel chain drive with safety lock
- **Brackets:** Concealed aluminum brackets, powder-coated finish
- **Bottom bar:** Aluminum, weighted, color-matched
- **Installation:** Level, aligned, and coordinated with ceiling and window frame
- **Durability:** Minimum 10,000 operation cycles without failure

Installation Conditions

- Verify window dimensions before fabrication.
- Install blinds after completion of ceiling and window finishes.
- Ensure smooth operation and uniform appearance.

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- Protect blinds from paint, dust, or construction damage.
- Provide manufacturer's warranty (minimum 2 years).

Measurement

- Unit: **Each installed blind (ea)**

C.8.15. ELECTRICAL INSTALLATIONS

Technical Execution of the Activity

The contractor shall execute a complete and functional electrical system, including the connection from the general building panel to the project, the installation of main switches, lighting and power load centers, feeders, luminaires, switches, and outlets. 24-space lighting load centers and 36-space force load centers shall be installed as designed. The contractor will be responsible for verifying loads, sizing conductors, balancing circuits, and ensuring the correct operation of the system. All installations must be delivered energized, tested and in optimal operating conditions.

Electrical installations must be executed as a complete, coordinated and balanced system, starting from the connection, main switch, feeders, panels, branch circuits, lighting outputs, power outputs, dedicated outputs and special points. In this project, the plans establish a TAB-01 lighting panel and a TP-01 power panel, as well as 2x2 panel and 2x4 panel luminaires, circular luminaires, extractors and switches of different types. The contractor must verify the channeling routes, deck capacity, conductor gauges, protections and load balance before executing. All channeling must be duly supported, orderly and identified; all conductors must be made of copper, with appropriate insulation; and every solution must be tested and operational. From a contractual point of view, this wording must make it clear that the contractor's obligation is not only to "install materials", but to deliver an energized, tested, identified, safe and functioning system according to design.

The execution of the electrical installations must be carried out in accordance with the electrical plans of the project, guaranteeing a safe, efficient system in accordance with the operating conditions of the space.

Prior to the start of the work, the contractor must carry out a comprehensive review of the electrical plans, verifying the location of luminaires, outlets, boards and channeling routes. Likewise, it must coordinate with the other disciplines to avoid interference during the execution. The installation will begin with the layout of the channeling routes, followed by the placement of EMT-type pipes duly fixed to the structural surfaces. Pipes shall be installed in an orderly manner, with straight alignments and using suitable fittings for changes of direction. Subsequently, copper

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electrical conductors with THHN/THWN type insulation will be laid, respecting the specified calibers and avoiding unnecessary connections within the conduits. All drivers must be identified to facilitate maintenance. The installation of electrical panels must be carried out in accessible locations, guaranteeing their correct fixing and connection. Load balancing must be carried out between phases, in order to optimize the operation of the system. Luminaires, outlets and switches must be installed in the locations indicated in the plans, respecting heights and alignments. Once the installation is complete, continuity, insulation and operation tests must be carried out on all circuits.

The installation of outlets and power circuits must be carried out guaranteeing electrical safety, the functionality of the system and the correct distribution of loads. Outlets must be installed in the locations established in the plans, respecting the heights and distances indicated, as well as their distribution according to the use of each space. Independent circuits must be installed for high-consumption equipment, such as kitchens, special equipment or technological systems. Each point must be connected to its respective circuit, avoiding overloads and ensuring correct protection by means of thermomagnetic switches. Connections must be made firmly and securely, avoiding false contacts or poor connections. Once installation is complete, the contractor shall verify the proper operation of all outlets through load testing.

The electrical system shall run as a complete energized system, including:

- Connection from general dashboard
- Main switch
- Lighting Load Centers (24 spaces)
- Force Load Center (36 spaces)
- Feeders
- Branch circuits
- Luminaires
- Electrical outlets
- Switches

The contractor shall be responsible for:

- Verify loads
- Balancing phases
- Sizing Conductors
- Deliver functional system

Partial or non-operational installation will not be accepted.

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Technical Specifications

- THHN/THWN copper conductors.
- Channeling in EMT pipes.
- Electrical panels with thermomagnetic breakers.

Conditions

- Compliance with Honduran electricity regulations.
- Circuit identification.
- Load balancing.

Measurement

- Per point installed or complete system

Specifications

- 120V and 240V outlets according to design.
- Independent circuits for special equipment.

Conditions

- Standard height: 0.30 m and 1.20 m depending on use.
- Mandatory functional tests.

Measurement

- Installed unit

C.8.16. HYDROSANITARY INSTALLATIONS

Technical Execution of the Activity

The contractor must execute the modifications and new hydrosanitary installations necessary for the adaptation of four bathrooms, including the installation of sinks, toilets and showers.

In existing bathrooms, the current appliances must be dismantled and replaced with new ones, using the existing connections. In new bathrooms, pipes, fittings and necessary connections must be installed, including level adjustments by means of mortars. Showers must include complete installation systems, including taps, drains, traps and pipes, as well as waterproofing by means of membrane applied to walls and floors. The final system shall be fully functional and leak-free.

The contractor must intervene two existing bathrooms and build two new ones, incorporating showers by taking advantage of the existing points.

Works must be carried out on:

- Pipeline relocation
- Floor leveling (when applicable)

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- Installation of new sanitary appliances
- Installation of complete showers

Waterproofing will be mandatory in shower areas by means of a membrane applied in two layers. The end result should be a fully functional, leak-free system with adequate drainage and sanitary compliance.

C.8.17. STRUCTURED CABLING (DATA)

Technical Execution of the Activity

The contractor shall install a complete structured cabling system independent from the electrical system, ensuring signal integrity, network performance, and compliance with international standards **TIA/EIA-568**, **TIA-569**, and **BICSI**.

Data cabling shall **NOT** be installed inside electrical conduits. The preferred method is:

- **Open cable trays**
- **Ladder trays**
- **Dedicated low-voltage pathways**
- **Surface raceways (only where required)**

Conduits may only be used for **vertical risers** or **final drops to outlets**, never for long horizontal runs.

Prior to installation, the contractor shall define and coordinate all routing paths, ensuring no interference with HVAC ducts, electrical conduits, fire protection systems, or ceiling suspension hardware.

All horizontal cabling shall be **CAT6 UTP**, installed respecting:

- Minimum bending radius
- Maximum pulling tension
- Separation from electrical circuits (minimum 30 cm parallel, 5 cm crossing)
- Avoiding cable compression, kinks, or tight bundling

All data outlets and patch panel terminations shall follow **TIA/EIA-568B** (or 568A if required by the Employer). Each cable shall be labeled at:

- The faceplate
- The patch panel
- The cable jacket near both ends

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Upon completion, the contractor shall perform **certification tests** on every data point using a **Level III or higher field tester** (Fluke DSX-5000 or equivalent). Certification reports must be submitted as part of the deliverables.

Approved Manufacturers

The following manufacturers are approved for structured cabling components:

- **Panduit**
- **Leviton**
- **Siemon**
- **Belden**
- **Commscope**

Equivalent manufacturers may be submitted for approval if they meet or exceed CAT6 performance requirements.

Basis of Design

The basis of design for this project is:

- **Panduit CAT6 UTP System**, including jacks, patch panels, faceplates, and cable management.

This establishes the minimum acceptable standard for performance and durability.

Minimum Technical Specifications

Cabling

- Type: **CAT6 UTP**, 23 AWG
- Jacket: PVC or LSZH (as required by code)
- Max channel length: **100 m** (90 m horizontal + 10 m patch cords)
- Installation standard: **TIA/EIA-568**

Pathways

- Cable trays for horizontal runs
- Conduits only for vertical risers or final drops
- No sharing pathways with electrical circuits
- Maintain separation from EMI sources (motors, ballasts, UPS, etc.)

Faceplates & Jacks

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- Keystone CAT6 jacks
- Double-gang or single-gang faceplates as per drawings
- Color-coded or labeled per Employer's standard

Patch Panels

- 24-port or 48-port CAT6 patch panels
- Rack-mounted
- With cable management bars

Racks & Cabinets

- 19" standard rack
- Cable management rings
- Horizontal and vertical organizers

Testing & Certification

- 100% of data points must be certified
- Certification with Fluke DSX-5000 or equivalent
- Reports must include:
 - Wiremap
 - NEXT
 - PSNEXT
 - Return Loss
 - Attenuation
 - Length

Installation Conditions

- Mandatory labeling at both ends
- No cable splicing allowed
- Maintain bend radius and pulling tension limits
- Keep cables away from heat sources
- Protect cables during construction
- Submit as-built drawings showing cable routes and numbering

Measurement

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Minor Construction Services**

- Unit: **Per installed and certified data point (ea)**

C.8.18 HVAC SYSTEM

C.8.18.1 EQUIPMENT

VRF SYSTEM

The main air conditioning system will consist of a VRF inverter condensing unit with variable refrigerant flow.

Minimum Features:

Reference brand: LG

Series: Multi V 5

Model No.: ARUV241BTE5

Rated Capacity: 240,000 BTU/hr

Refrigerant: R-410a

Power supply: 220-240V/3F/60Hz

Compressors: Variable speed inverter scroll

Capacity Control: Variable from 10% to 100%

The equipment must have:

- High pressure protection.
- Low pressure protection.
- Thermal protection.
- Discharge temperature monitoring.
- Self-diagnosis.
- Centralized communication.
- Automatic restart.

Only equivalent equipment previously approved by supervision will be accepted.

CASSETTE EVAPORATOR UNITS

The indoor units will be of the direct expansion cassette type for installation on false ceiling.

Reference models:

- ARNU12GTUB4
- ARNU18GTTB4
- ARNU18GTSA4

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- ARNU18GTQB4
- ARNU24GTBB4
- ARNU36GTAB4
- ARNU48GTAB4

Units shall include:

- Integrated condensate pump.
- Washable filters.
- Electronic control.
- Digital communication with condenser.
- Quiet operation.

The units must be installed suspended by means of galvanized threaded rod. Sufficient accesses must be maintained for maintenance.

ENERGY RECUPERATOR

An HRV type energy recuperator will be supplied for mechanical ventilation.

Reference brand: Sicflux

Model No.: CRS-200

Type: Heat Recovery Ventilator

The equipment must provide:

- Sensitive and latent recovery.
- Enthalpic heat exchanger.
- Fuel-efficient motors.
- Removable filters.
- Continuous operation.

The minimum thermal recovery efficiency must be equal to or greater than 65%. The equipment must be installed suspended above the false ceiling in accordance with the construction details of the project.

The contractor shall verify that maintenance access is adequate prior to installation.

C.8.18.2 AIR DISTRIBUTION SYSTEM

AIR DUCTS

General

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All mechanical ventilation and energy recovery system ducts shall be constructed and installed in accordance with the most recent SMACNA recommendations and manufacturer's specifications.

The system must ensure:

- Low pressure loss.
- Low air leakage.
- Quiet operation.
- Easy to clean.
- Ease of maintenance.

Pre-insulated ducts

The main ventilation ducts will be manufactured with pre-insulated rigid panel of high-density expanded polystyrene.

Minimum Features:

- Thickness: 20 mm
- Maximum thermal conductivity: 0.022 W/m·K
- Inner Coating: Embossed Aluminum
- Outer Coating: Reinforced Aluminum
- Minimum density: 48 kg/m³ Fire rating: Self-extinguishing

All cuts, joints and taps must be made using tools and accessories recommended by the system manufacturer.

Improvised joints or sealed with unapproved materials will not be accepted.

Flexible Ducts

Flexible ducts shall be used only for final connections between rigid ducts and diffusers.

Maximum allowable length: 1.5 meters Minimum characteristics:

- Integrated thermal insulation.
- Vapor barrier.
- Continuous metal spiral.
- UL Listed.

Flexible ducts must be installed fully extended. Excessive crushing or bending will not be permitted.

Sealing

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All joints shall be sealed using elastomeric duct sealant. The entire system must remain airtight. The maximum allowable leakage will be that established by SMACNA for low-pressure systems.

C.8.18.3 SUPPORTS

General

All equipment, ducts and pipes must be installed with permanent galvanized steel supports.

Supports shall be designed to support:

- Self-weight.
- Vibrations.
- Thermal expansions.
- Accidental loads.

Duct Supports

Horizontal ducts must be supported by:

- Galvanized threaded rod.
- Unistrut type channel.
- Galvanized corners. Maximum Spacing: 1.2 m

Cooling Pipe Brackets

The pipes must be installed on insulated supports that prevent damage to the insulation. Thermal insulation shall not be allowed to directly support the weight of the pipe.

- Maximum Spacing: 0.6 m

Equipment Mounts

Cassette evaporators shall be suspended by:

- 3/8" galvanized threaded rods.
- Security nuts.
- Flat and pressure washers.

The equipment must be perfectly level to ensure adequate drainage of condensate.

C.8.18.4 DIFFUSERS, GRILLES AND LOUVERS

Air Diffusers

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The diffusers must be made of extruded aluminium with a white electrostatic paint finish. Adjustable round diffusers shall be equivalent to: Sicflux RVA or approved equivalent. Diffusers must allow direction adjustment and rolling.

Extraction Grids

Extraction grates must be made of extruded aluminium. Minimum Features:

- Reinforced frame.
- Fixed fins.
- Electrostatic paint finish.

Outdoor Louvers

Louvers must be installed in all outdoor air intakes and discharges.

Minimum Features:

- Aluminum construction.
- Rain protection.
- Anti-insect mesh.
- Corrosion resistance.

All terminal elements must be perfectly aligned with the architecture of the project.

C.8.18.5 PIPING

Condensate Drain Pipes

The drainage pipes must be manufactured in hydraulic PVC.

- Minimum Diameter: 3/4"
- Pipes must be installed with a minimum slope of: 1%

All lines must be led to the discharge points indicated in the plans. Drain traps should be installed when required by the manufacturer.

No counterflows or accumulations of water will be allowed.

Hydraulic operational tests must be carried out prior to the delivery of the project.

Refrigeration Pipes

General

All refrigeration pipes must be dehydrated and sealed from the factory.

The use of drinking water pipes or type M copper will not be allowed.

Joints

The joints must be made by brazing using silver alloy.

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During the welding process, dry nitrogen must circulate inside the pipe to prevent rust formation.

Insulation

Cooling lines shall be insulated with closed-cell elastomeric material.

Minimum thicknesses:

Up to 5/8": 13 mm

Larger than 5/8": 19 mm

The joints must be completely sealed to prevent condensation.

Exterior Pipes

Any pipes exposed to the outside must be protected by:

- Aluminum jacket. or
- UV resistant PVC cover.

Y-Branch Shunts

Shunts must be original from the manufacturer of the VRF system.

Derivatives manufactured on site will not be allowed.

The Y-Branch must be installed respecting the minimum distances established by LG.

C.8.18.6 EXECUTION AND MAINTENANCE

Execution

The entire installation must be executed using technical personnel specialized in VRF systems.

Before starting work, the following must be verified:

- Architectural dimensions.
- Available heights.
- Interference.
- Maintenance Accesses

Any modification must be approved in advance by the supervision. At the end of the installation, the following must be completely removed:

- Waste.
- Leftover material.
- Packaging.
- Temporary teams.

Electrical Installations

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The mechanical contractor shall coordinate with the electrical contractor all power and control requirements.

Each team must have:

- Local disconnect switch.
- Thermomagnetic protection.
- Grounding System

All pipes must comply with NEC and current local regulations.

Control Facilities

The system shall operate by means of individual wired controls. Each evaporator will have its respective controller.

Communication between equipment must be carried out by means of a cable recommended by the manufacturer.

The system must allow:

- Individual on and off.
- Temperature adjustment.
- Time programming.
- Failure monitoring.
- Alarm diagnosis.

Electrical Protections

All equipment shall be protected against:

- Low voltage.
- Overvoltage.
- Phase loss.
- Phase reversal.
- Voltage imbalance

The protections must restart automatically once normal operating conditions have been restored.

The devices must be compatible with the capacity of the installed equipment.

C.8.18.7 MAINTENANCE

The contractor must deliver the system completely clean and operating correctly.

Recommended Preventive Maintenance

Monthly:

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- Alarm review.
- Surface cleaning.
- Drainage inspection. Quarterly:
- Filter cleaning.
- Verification of controls.
- Review of electrical connections. Semester:
- Cleaning of coils.
- Pressure verification.
- Coolant charge verification.
- HRV cleaning.

Annual:

- General inspection.
- Air balancing.
- Calibration of controls.
- Comprehensive evaluation of the system.

The system shall maintain the specified design conditions throughout its useful life through the execution of appropriate preventive maintenance programs.

C.8.18.8 VRF INSTALLATION CRITERIA

The installation must strictly comply with the manufacturer's engineering manuals. The following must be verified:

- Total equivalent length.
- Height difference.
- Length between deriviers.
- Maximum number of evaporators.
- Additional refrigerant charge.

The installation must consider approximately:

- Total pipe length: 229 feet
- Additional refrigerant charge: 7.53 kg of R-410a

All calculations must be verified before starting the installation.

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C.8.18.9 COMMISSIONING REQUIREMENTS

Prior to commissioning, the following must be submitted:

1. Nitrogen pressure report
2. Vacuum Report
3. Refrigerant Charge Report
4. Electrical Test Report
5. Phase Sequence Report
6. Ground Continuity Report
7. Air Balance Report
8. Training Report
9. Complete manuals
10. As-Built Plans

C.8.18.10 SUBMITTAL REQUIREMENTS

The contractor must submit for approval:

- VRF condenser submittal.
- Evaporator submittal.
- Submittal of controls.
- Y-Branch Submittal.
- Submittal of the energy recuperator.
- Pre-insulated duct submittal.
- Insulation submittal.
- Pipe submittal.
- Submittal of supports.
- Submittal of diffusers.
- Submittal of grids.
- Submittal of louvers.

No material may be installed without prior approval.

C.8.18.11 EXTENDED WARRANTY RECOMMENDED

It is recommended that the contractor offer:

- 1 year comprehensive installation warranty.
- 5 years for compressors.
- 3 years for e-cards.
- 1 year for controls.

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- 1 year for energy recovery.
- 1 year for fans and motors.

The warranty must include labor and materials.

C.8.18.12 STANDARDS AND REFERENCES

Design, supply, and installation must comply with at least: ASHRAE 15

- ASHRAE 34
- ASHRAE 55
- ASHRAE 62.1
- ASHRAE 90.1
- SMACNA HVAC Duct Construction Standards
- AMCA NFPA 70 NFPA 90A UL
- ARI AHRI IMC
- International Mechanical Code NEC
- National Electrical Code
- Applicable local regulations in Honduras