

TERMS OF REFERENCE

A. Name and Description of the Project:

One (1) lot – Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning Units, complete with standard accessories per manufacturer’s standards for the establishment of the five (5) New LANDBANK Agri-Hubs for 2020.

B. Objective of the Project:

1. To properly ventilate the Office area.
2. To maintain the corporate image of the Bank.
3. To provide a conducive banking and working area.


C. Scope of the Project and Delivery Time/Completion:

<p>1. Supply, delivery and installation</p>	<ul style="list-style-type: none"> ➤ Mobilization of manpower and equipment/tools for the following LANDBANK Agri-Hubs, to wit: <ol style="list-style-type: none"> 1. Sual Municipal Complex Hall, Labrado-Sual Rd., Pangasinan 2. Poblacion Rd., San Fabian, Echague, Isabela 3. Del Carmen St., Calabangga, Camarines Sur 4. Brgy. Maynganay Sur, Sta. Maria, Ilocos Sur 5. Barotac Viejo Trade Center, Zulueta Drive, Poblacion, Barotac Viejo ➤ Six (6) units of 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) ➤ Ten (10) units of 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) ➤ Installation, testing and commissioning ➤ Cleaning-up works and demobilization ➤ For technical specifications: <ul style="list-style-type: none"> • 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) – see attachment 1 • 3.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 2 • 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) – see attachment 3 • 5.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 4
<p>2. Installation Schedule</p>	<p>Monday to Sunday or per coordination with end-user/s</p>
<p>3. Installation Period</p>	<p>Thirty (30) calendar days per Office upon receipt of Notice to Proceed (NTP) and availability of project site</p>
<p>4. I. General Notes II. Qualification and Documentary Requirements III. Billing Requirements IV. Payment Terms 5. Refrigerant Pipe Insulation Details, Schematic Piping Diagram and Electrical Riser Diagram 6. Certificate of Satisfactory Performance Format 7. Start-up Data Sheet</p>	<p>See Annex A</p> <p>See Annex B</p> <p>See Annex C</p> <p>See Annex D</p>

Prepared by:


 CHRISTOPHER R. ODAD
 Engineer, VBG

Reviewed by:


 RICHARD MICHAEL B. DIMAPILIS
 Team Leader, North NCRBG

Approved by:


 ENRICO D.J. SAMANIEGO
 Head, PMED

Revised Annex C-1

TERMS OF REFERENCE

A. Name and Description of the Project:

One (1) lot – Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning Units, complete with standard accessories per manufacturer’s standards for **LANDBANK Pagadian Balintawak Branch**.

B. Objective of the Project:

1. To properly ventilate the Office area.
2. To maintain the corporate image of the Bank.
3. To provide a conducive banking and working area.

C. Scope of the Project and Delivery Time/Completion:

<p>1. Supply, delivery and installation</p>	<ul style="list-style-type: none"> ➤ Mobilization of manpower and equipment/tools at Pagadian Balintawak Branch, Pres. L2, Blk 16, Corazon Aquino Regional Gov’t Center, Brgy. Balintawak, Pagadian City ➤ Two (2) units 2.0 TR Wall mounted, split type air-conditioning unit (Inverter Type) ➤ Three (3) units 3.0 TR Ceiling mounted, split type air-conditioning unit (Inverter Type) ➤ One (1) unit 3.0 TR Floor mounted, split type air-conditioning unit (Inverter Type) ➤ Two (2) units 5.0 TR Floor mounted, split type air-conditioning unit (Inverter Type) ➤ Installation, testing and commissioning ➤ Cleaning-up works and demobilization ➤ For Technical Specifications : <ul style="list-style-type: none"> • 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) – see attachment 1 • 3.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 2 • 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) – see attachment 3 • 5.0 TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 4
<p>2. Installation Schedule</p>	<p>Monday to Sunday or per coordination with end-user/s</p>
<p>3. Installation Period</p>	<p>Forty Five (45) calendar days upon receipt of Notice to Proceed (NTP) and availability of project site</p>
<p>4. I. General Notes II. Qualification and Documentary Requirements III. Billing Requirements IV. Payment Terms 5. Refrigerant Pipe Insulation Details, Schematic Piping Diagram and Electrical Riser Diagram 6. Certificate of Satisfactory Performance 7. Start-up Data Sheet</p>	<p>See Annex A</p> <p>See Annex B</p> <p>See Annex C</p> <p>See Annex D</p>

Prepared by:

CRD
 CHRISTOPHER R. ODAD
 Engineer, VBG

Reviewed by:

~~*[Signature]*~~
 RICHARD MICHAEL B. DIMAPILIS
 Team Leader, North NCRBG

Approved by:

[Signature]
 ENRICO D.J. SAMANIEGO
 Head, PMED

TERMS OF REFERENCE

CLASS D

A. Name and Description of the Project:

One (1) lot – Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning Units, complete with standard accessories per manufacturer’s standards for **LANDBANK Tuguegarao Branch** including dismantling of existing units.

B. Objective of the Project:

1. To properly ventilate the Office area.
2. To maintain the corporate image of the Bank.
3. To provide a conducive banking and working area.

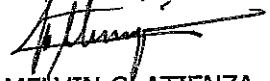
C. Scope of the Project and Delivery Time/Completion:

<p>1. Supply, delivery and installation</p>	<ul style="list-style-type: none"> ➤ Mobilization of manpower and equipment/tools at LANDBANK Bldg., Bagay Road Brgy. San Gabriel, Tuguegarao City, Cagayan ➤ Five (5) units – 5.0 TR floor Mounted, Split type air-conditioning unit (Inverter Type) ➤ One (1) unit – 2.0 TR Wall Mounted, Split type air-conditioning unit (Inverter Type) ➤ Installation (including power supply of 2.0TR ACU), testing and commissioning <ul style="list-style-type: none"> • 99 meters- 3.5 mm² THHN wires (2 hot,1 gnd wires) • 13 length – 20 mm PVC pipe • 1 pc – 30AT/50AT,2P,240VAC Bolt-on Circuit Breaker (install to PP Panel) ➤ Cleaning-up works and demobilization ➤ Dismantling of existing units ➤ For Technical Specifications: <ul style="list-style-type: none"> • 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) – see attachment 1 • 3.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 2 • 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) – see attachment 3 • 5.0 TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 5
<p>2. Installation Schedule</p>	<p>Monday to Sunday or per coordination with end-user/s</p>
<p>3. Installation Period</p>	<p>Thirty (30) calendar days upon receipt of Notice to Proceed (NTP) and availability of project site</p>
<p>4. I. General Notes II. Qualification and Documentary Requirements III. Billing Requirements IV. Payment Terms 5. Refrigerant Pipe Insulation Details, Schematic Piping Diagram and Electrical Riser Diagram 6. Certificate of Satisfactory Performance Template 7. Start-up Data Sheet</p>	<p>See Annex A</p> <p>See Annex B</p> <p>See Annex C</p> <p>See Annex D</p>

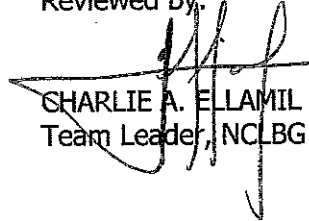
Terms of Reference for the procurement of Air-conditioning Unit (ACU)

CLASS D


Prepared by:


MELVIN C. ATIENZA
Engineer, NCRBG-South


Reviewed by:


CHARLIE A. ELLAMIL
Team Leader, NCLBG

Endorsed by:


ANABELLA M. REYES
Head, PDMU North

Approved by:


ENRICO D.J. SAMANIEGO
Head, PMED

Revised Annex C.1

TERMS OF REFERENCE

A. Name and Description of the Project:

One (1) lot – Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning Units, complete with standard accessories per manufacturer’s standards for LANDBANK Burauen Branch Construction.

B. Objective of the Project:

1. To properly ventilate the Office area.
2. To maintain the corporate image of the Bank.
3. To provide a conducive banking and working area.

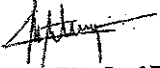
C. Scope of the Project and Delivery Time/Completion:

<p>1. Supply, delivery and installation</p>	<ul style="list-style-type: none"> ➤ Mobilization of manpower and equipment/tools at Burauen Public Market, Burauen, Leyte ➤ Five (5) units – 3.0 TR Ceiling Mounted, Split type air-conditioning units (Inverter Type) ➤ One (1) unit – 2.0 TR Wall Mounted, Split type air-conditioning units (Inverter Type) ➤ Installation, testing and commissioning ➤ Cleaning-up works and demobilization ➤ For Technical Specifications: <ul style="list-style-type: none"> • 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) – see attachment 1 • 3.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 2 • 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) – see attachment 3 • 5.0 TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 4
<p>2. Installation Schedule</p>	<p>Monday to Sunday or per coordination with end-user/s</p>
<p>3. Installation Period</p>	<p>Thirty (30) calendar days upon receipt of Notice to Proceed (NTP) and availability of project site</p>
<p>4. I. General Notes II. Qualification and Documentary Requirements III. Billing Requirements IV. Payment Terms 5. Refrigerant Pipe Insulation Details, Schematic Piping Diagram and Electrical Riser Diagram 6. Certificate of Satisfactory Performance Template 7. Start-up Data Sheet</p>	<p>See Annex A</p> <p>See Annex B</p> <p>See Annex C</p> <p>See Annex D</p>


Revised Annex C-II

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

Prepared by:


MELVIN C. ATIENZA
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Head, PMED

Revised Annex C-8

2.0 TR Wall Mounted (Inverter Type)

Features	LBP SPECIFICATIONS
Fan Coil Application Type	Wall Mounted
Cooling Capacity, minimum	20,000 Btu/hr or 21,000 kJ/hr or 5.83 kW (whichever of the three)
Energy Efficiency Ratio (EER), minimum	9.76 Btu/W-hr or 10.3 kJ/W-hr or 2.86 W/W-hr (Whichever of the three)
Air Flow (Hi/Mid/Lo), minimum	(988/776/562) CMH or (16/12/9) CMM or (581/456/330) CFM (Whichever of the three)

Features	Unit	LBP SPECIFICATIONS
Power Supply	V-Hz	220-240, 60
Phase	Ø	single
System Power Input, max	Watts	2,600
Sound Pressure Level (Indoor), max	dB(A)	65
Compressor Type		Scroll/Rotary
Refrigerant		R-410A/R-32
Controls		remote

Revised Annex C-9

3.0 TR Floor Mounted (Inverter Type)

Features	LBP SPECIFICATIONS
Fan Coil Application Type	Floor Mounted
Cooling Capacity, minimum	34,000 Btu/hr or 35,800 kJ/hr or 9.90 kW (whichever of the three)
Energy Efficiency Ratio (EER), minimum	9.76 Btu/W-hr or 10.3 kJ/W-hr or 2.86 W/W-hr (whichever of the three)
Air-Flow (Hi/Mid/Lo), minimum	(1410/1140/562) CMH or (23/19/14) CMM or (829/670/494) CFM (Whichever of the three)

Features	Unit	LBP SPECIFICATIONS
Power Supply	V-Hz	220-240, 50
Phase	Ø	single
System Power Input, max	Watts	3,900
Sound Pressure Level (Indoor), max	dB(A)	65
Compressor Type		Scroll/Rotary
Refrigerant		R-410A/R-32
Controls		remote

Revised Annex C-10

3.0 TR Ceiling Mounted (Inverter Type)

Features	LBP SPECIFICATIONS
Fan Coil Application Type	Ceiling Mounted
Cooling Capacity, minimum	34,000 Btu/hr or 35,800 kJ/hr or 9.90 kW (whichever of the three)
Energy Efficiency Ratio (EER), minimum	9.76 Btu/W-hr or 10.3 kJ/W-hr or 2.86 W/W-hr (Whichever of the three)
Air-Flow (Hi/Mid/Lo), minimum	(1200/1080/960) CMM or (20/18/16) CMM or (706/635/565) CFM (Whichever of the three)

Features	Unit	LBP SPECIFICATIONS
Power Supply	V-Hz	220-240, 60
Phase	Ø	single
System Power Input, max	Watts	3,900
Sound Pressure Level (Indoor), max	dB(A)	65
Compressor Type		Scroll/Rotary
Refrigerant		R-410A/R-32
Controls		remote

5.0 TR Floor Mounted (Inverter Type)

Features	LBP SPECIFICATIONS
Fan Coil Application Type	Floor Mounted
Cooling Capacity, minimum	55,000 Btu/hr or 58,000 kJ/hr or 16.0 kW (whichever of the three)
Energy Efficiency Ratio (EER), minimum	9.76 Btu/W-hr or 10.3 kJ/W-hr or 2.86 W/W-hr (Whichever of the three)
Air-Flow (Hi/Mid/Lo), minimum	(2200/1900/1500) CMH or (36/31/25) CMM or (1294/1118/882) CFM (Whichever of the three)

Features	Unit	LBP SPECIFICATIONS
Power Supply	V-Hz	220-240, 60
Phase	Ø	three
System Power Input, max	Watts	5,600
Sound Pressure Level (Indoor), max	dB(A)	65
Compressor Type		Scroll/Rotary
Refrigerant		R-410A/R-32
Controls		remote

Revised Annex C-TR1

I. General Notes**1. Piping, Electrical and Accessories**

- a. Refer to Annex B for refrigerant pipe insulation detail, schematic piping diagram and electrical riser diagram;
- b. Refrigerant piping shall be TYPE-M, Hard Drawn Seamless Copper using the standard pipe size recommended by the manufacturer;
- c. Pipes shall be anchored, plumbed and parallel to the building's vertical and horizontal lines. Pipe hangers and supports shall be of the type as specified. Pipe sleeves thru walls and wall penetrations, roofs and floors shall be provided by the supplier/installer. The gap between the pipe and the pipe sleeves must be provided with water proofing and sealant;
- d. All piping shall be leak tested with pressure of at least 1.5 times the designed working pressure;
- e. Refrigerant suction line shall be insulated with pre-moulded elastomeric rubber insulation 15 mm thick for 3.0 TR and below, and 25 mm thick for 5.0 TR up to 10 TR. Insulation installed outdoor shall be provided with weather proof coating;
- f. Without additional cost to the bank, the supplier/installer shall supply and install the following components/parts if not included in the unit's standard accessories (for split-type units with capacities of 2.0 TR and above)
 - Liquid Line Filter Drier, Flare-type
 - Magnetic Contactor with External Thermal Overload
 - On-Delay Timer
 - Plug-in type High and Low Pressure Switches
- g. Provide NEMA type, UL listed bolt-on circuit breakers for FCU and ACCU
- h. Use EMT for electrical pipes and stranded THHN wires for feeder lines;
- i. Use color blue, schedule 40 PVC pipe for drain lines using the appropriate size recommended by the manufacturer, but not less than 1-inch in diameter.

2. Other Requirements:

- a. Prospective ACU contractors are encouraged to inspect, verify and assess the existing condition, location and details of the project;
- b. All equipment, units and parts/components to be supplied shall be brand new, clean and approved products of reputable manufacturers;
- c. All works shall conform to the provisions (latest edition) of the Philippine Mechanical, Electrical and Building Codes, the Clean Air Act, Environmental Laws and other applicable laws and regulations;
- d. In line with the Bank's Environmental Management System (EMS) program and being an ISO 14001 certified institution, the winning ACU contractor is required to use appropriate equipment, hand tools and personal protective gears and equipment (gloves, rubber boots, masks, etc.) during the installation, repair or maintenance activities;
- e. All equipment shall be installed in approximate location as shown in the mechanical plans;
- f. Any proposed change or deviation from the original mechanical plans or specifications either initiated by the ACU contractor, the end-user or due to actual site condition, must be submitted to LBP-PMED in the form of shop drawing for approval prior to implementation.

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

- g. The winning ACU contractor should coordinate his works closely with the works of other trades concerned;
- h. Installation of works shall be done in neat workmanship and like manners. All improperly set works, rough finishes or other works not in accordance with the approved plans and specifications as determined by the LBP-PMED engineer or technical representatives shall be removed and replaced within seven (7) calendar days by the ACU contractor at no extra cost;
- i. No existing/old materials shall be re-used; e.g., circuit breakers, electrical and mechanical controls, materials and components, refrigerant pipes, fittings, insulations, etc., unless otherwise specified in the scope of works or technical specifications;
- j. The ACU contractor shall provide all the necessary components or accessories, e.g., brackets, pedestals, clamps, fasteners, air deflectors, etc., to ensure the safe, normal and efficient operation of the installed ACUs;
- k. The ACU contractor shall properly account and turn-over all dismantled/replaced materials to the branch head or its authorized representative/s;
- l. The ACU contractor shall exercise extreme caution and be responsible in the delivery, safe hauling/transfer of supplies, tools, equipment and/or chemicals to prevent damage to bank properties and employees. The corresponding cost to repair or replace the bank equipment, facilities or including part and components damaged or lost by the ACU contractor or its workers during the course of the project shall be deductible/chargeable to the ACU contractor;
- m. The ACU contractor shall be liable for any harm, damage or injury that may be sustained or suffered by its own crew/workers while in the performance of their duties/job under this project;
- n. The ACU contractor shall be held directly responsible for any injury to person and/or damage to bank's property arising from the act, whether partial, contributory, or due entirely to the fault, negligence and/or dishonesty of the contractor's personnel in the course of their duties;
- o. The ACU contractor shall maintain cleanliness of all workplace at all times. They shall clean the affected areas immediately after each workday;
- p. The ACU contractor is required to submit the names of its worker/s who will conduct or inspect the installation. As maybe required, identification cards shall be presented;
- q. The ACU contractor or its foreman/engineer shall coordinate with the Branch Head or its authorized representative to discuss the necessary preparations and work activities prior to implementation of this project;
- r. The ACU contractor shall strictly observe the Bank's existing rules and regulations and shall be subject to the latter's standard security policies and procedures while inside its premises;
- s. Payment of construction bond (if applicable) shall be charged on the account of the ACU contractor;
- t. Should the ACU contractor fails to provide the required warranty servicing within the warranty period per submitted schedule of activities, the ACU contractor agrees, without invalidating the provisions of the warranty that the Bank may opt to contract the services of another ACU contractor/installer for the servicing of the equipment and components. The corresponding cost that will be incurred for the servicing shall be deducted from the ACU contractor's retention money;
- u. Included in the bids or tender and warranty are the cost of consumables, basic replacement of parts, servicing and other incidental expenses of the ACU contractor or its authorized representatives, such as traveling expenses, lodging, food, etc.

II. Qualification and Documentary Requirements:

Qualification Requirement	Documentary Requirement
1. The quoted brand of prospective ACU contractor must be in the Philippine market for a minimum of ten (10) years and must be comparable to the type of Airconditioning Unit being procured (Split type, Variable Refrigerant Flow, etc.)	Copy of purchase orders, contracts or other related documents to prove that the offered brand of ACU has been in the Philippine market for at least ten (10) years prior to deadline for the submission of bids.
2. The ACU contractor shall provide Satisfactory Service to its customers using the standard format of Landbank (Annex C)	a. List of at least five different (5) large institutional clients (e.g. fast foods, BPOs, hospitals, funeral parlor, banks and government offices) with addresses, contact persons and telephone numbers including Certificate of Satisfactory Performance using the brand being offered by the prospective ACU contractor (with minimum of 4 units installed). b. For current and past suppliers of LANDBANK, Certificate of Satisfactory Performance and No Delayed Projects issued by the Head, Project Management and Engineering Department (PMED) not earlier than 30 calendar days prior to the deadline of submission of bid.
3. The ACU contractor must have highly trained technicians who are its regular employees.	List of at least 3 highly trained technicians (regular employees) with their respective Curriculum Vitae, Certificate of Employment and National Certificate II (NC II) for Refrigeration and Air-conditioning Servicing issued by TESDA
4. The quoted brand must have 24/7 Customer Contact Center	List of at least two (2) Service Centers within the province of the project site.
5. The ACU contractor must be an authorized distributor of the offered product.	Manufacturer's Authorization or Back-to-Back Certification to prove that the bidder is an authorized seller/ distributor of the offered product and/or other supporting documents to satisfy the said requirements.
6. The offered product must have brochures or any other official documents	Brochure or any other official documents coming from the manufacturer showing the specifications of the offered product
7. The brand model and specifications of the offered product shall be verifiable from the website of the manufacturer.	Print-out of the Homepage of manufacturer's /brand owner's website showing the URL (web address).
8. The offered product or its manufacturer must be authorized and certified by the approving/governing body.	Bureau of Product Standards (PS), Underwriters Laboratories (UL), European Conformity (CE) or ISO certifications, whichever is available.

III. Billing Requirements

Document	Description	Due Date of Submission
1. Start Up Data Sheet (Annex D)	Duly accomplished form showing the electrical and mechanical parameters of the air-conditioning unit/s	Upon Completion
2. Seven (7) sets of As-built plans and Bill of Materials (Signed and sealed by PME)	Complete Mechanical As-built plans and Bill of Materials of the installed air-conditioning units	Upon Completion
3. Schedule of Maintenance/Monitoring Activities	The ACU contractor shall provide the standard warranty servicing for all installed equipment and its components (checking and general cleaning of the unit at least three times within the warranty period, every four (4) months after the unit/s has been installed) or earlier as the need arises. The schedule of said activities and the names of authorized representatives shall be submitted to the Branch Head or its authorized representative prior to servicing	Upon Completion
4. Warranty Certificate with inclusive dates	One (1) year warranty for the unit and five (5) years warranty for compressor against factory/manufacturing defects on equipment, components and parts supplied and against faulty workmanship to commence upon receipt of final turn-over and acceptance documents. All equipment, parts and components found defective during and within the warranty period shall be immediately replaced without additional cost to the Bank	Upon Completion
5. Guarantee Certificate	Certificate that the spare parts and components including the after-sales services/supports that may be required by the bank to ensure the continuous and normal operation of the equipment shall be available in the next five (5) years from the date of commissioning	Upon Completion
6. Manuals	Operation and Preventive Maintenance Manual	Upon Completion
7. Pictures	Pictures showing angles on the left, front and right	Upon Completion
8. Certificate of Training	Certificate that the contractor conducted familiarization seminar/training to orient the end-user on the basic concept, functions and operation of the equipment installed. Said certificate must be duly noted by the end-user or its authorized representative.	Upon Completion

IV. Payment Terms:

1. Request for payment for every completed project/installation shall be entertained after the final turn-over and acceptance of the project and upon submission of complete billing documents required by the Procurement Department;
2. Manner of Payment shall be based on the following:

Deliverables	Documents to be Submitted	Percentage of Payment
• Upon 100% completion and acceptance of the project	Documents as required in Item III. Billing Requirements	97%
• Retention fee: After 1 year of final turnover of the project	Service Reports that the contractor conducted the warranty servicing	3%
TOTAL		100%

Prepared by:

ROEL EUGENE C. ELAZEGUI
Engineer, TSU-PMED

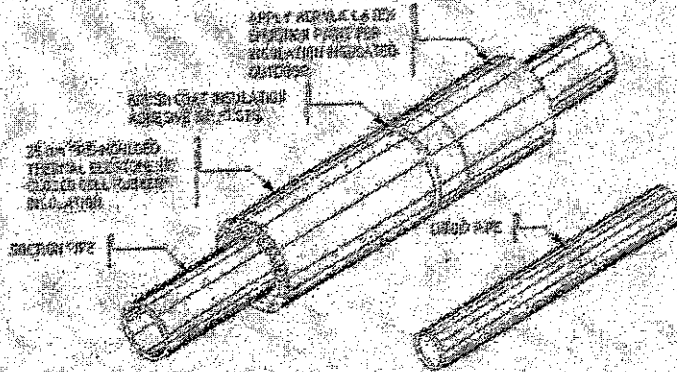
Reviewed by:

RICHARD MICHAEL B. DIMAPILIS
SPDS/Team Leader, North-NCRSG

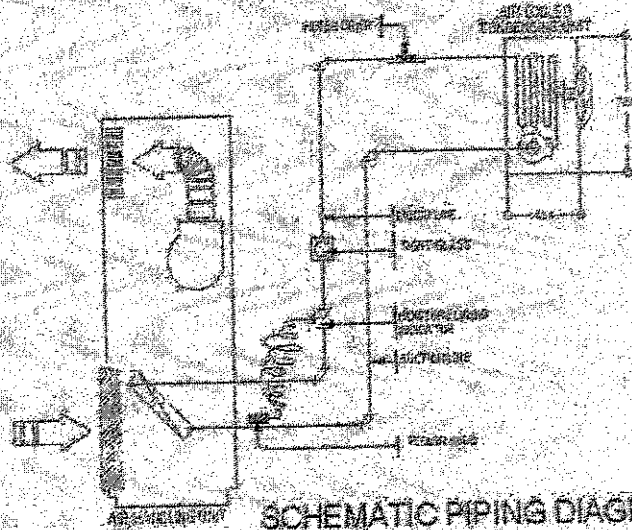
Approved by:

ENRICO D.J. SAMANIEGO
HEAD, PMED

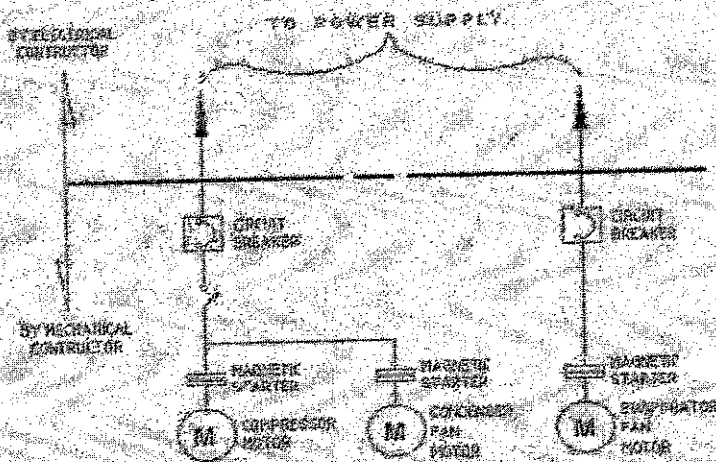
NOTE:
ADHESIVE AND LATEX PAINT SHOULD BE COMPATIBLE TO INSULATION USED.
IF SINGLE LAYER OF INSULATION SHALL BE OF SIMILAR MATERIAL BUT
25mm THICK.



REFRIGERANT PIPE INSULATION DETAIL



SCHEMATIC PIPING DIAGRAM



ACCU FCU
ELECTRICAL RISER DIAGRAM

ANNEX C

CERTIFICATE OF SATISFACTORY PERFORMANCE

This is to certify that **(Prospective Bidder/Supplier Company Name)** has supplied our company/agency with **(Items/Goods)**. Based on our evaluation on as to specifications, performance, supplier's timely delivery, conformity to warranty and after sales service, we give a rating of:

SATISFACTORY

POOR

Below are the list of Purchase Order (POs)/ Contracts supplied and installed by **(Prospective Bidder/Supplier Company Name)**, to wit:

PO Nos./Contracts	Project Site

Issued this _____ day of _____ in (location), Philippines

Signature
(Name of Authorized Representative)
(Position)
(Agency)
(Contact No.)

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

LANDBANK OF THE PHILIPPINES
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

ANNEX D

NAME OF THE BRANCH :
LOCATION :
DATE :

P.O. NO. _____

START - UP DATA SHEET

SUPPLIER'S DATA:

Name of Supplier: _____
Address: _____
Contact Person: _____ Tel.No.: _____

INSTALLATION DATA:

Technician In-charge: _____ Accreditation No: _____
Date Started: _____ Date Finished: _____ Start-up Date: _____
FCU Model No: _____ ACCU Model No: _____
FCU Serial No: _____ ACCU Serial No: _____

OPERATING DATA:

Suction Line Temperature: _____ Suction Line Pressure: _____
Discharge Line Temperature: _____ Discharge Line Pressure: _____
FCU Intake Air Temperature: _____ FCU Discharge Air Temp.: _____
ACCU Intake Air Temperature: _____ ACCU Discharge Air Temp.: _____
Room Temperature: _____ Ambient Temperature: _____

ELECTRICAL PARAMETERS:

Power Supply (Voltage): L1-L2: _____ L2-L3: _____ L3-L1: _____
Overall Ampere Readings, L1: _____ L2: _____ L3: _____
Current Draws, Compressor: _____ ACCU Fan Motor: _____ FCU Fan Motor: _____

OTHER INSTALLATION DATA

Refrigerant Piping:
Suction Diameter: _____ Length: _____ Insulation Thickness: _____
Discharge Diameter: _____ Length: _____ Insulation Thickness: _____
Drain Line:
Drain Line Diameter: _____ Length: _____ Insulation Thickness: _____
Electrical Lines:
Feeder Line Conduit Diameter: _____ Feeder Line Wire Size: _____ Length: _____
Control Line Conduit Diameter: _____ Control Line Wire Size: _____ Length: _____
Circuit Breaker: _____

Technician's Signature over Printed Name: _____

Revised Annex C-10

TERMS OF REFERENCE

A. Name and Description of the Project:

One (1) lot – Supply, Delivery, Installation, Testing and Commissioning of 30.0 TR Water-Cooled Packaged Air-conditioning Unit, complete with standard accessories per manufacturer’s standards for LANDBANK Makati Accounting Center including dismantling and hauling out of existing unit.

B. Objective of the Project:

1. To properly ventilate the Office area.
2. To maintain the corporate image of the Bank.
3. To provide a conducive working area.

C. Scope of the Project and Delivery Time/Completion:

1. Supply, delivery and installation	<ul style="list-style-type: none"> ➤ Mobilization of manpower and equipment/tools at 5th Floor World Center Condominium, Salcedo Village, Makati City ➤ One (1) unit – 30.0 TR Water Cooled Packaged Air Conditioning Unit, floor standing duct connection type, complete with high efficiency fully enclosed scroll type compressor, R-401A refrigerant, coiled double condenser, multipath vortex finned tube evaporator fan motor, safety control devices and other standard accessories, 440 Volts, 3 Phase, 60 Hertz power supply including securing of Mechanical Permit and other permits and clearances as may be required by the Office of the Building Official. ➤ Installation, testing and commissioning ➤ Dismantling and hauling out of existing unit to LANDBANK Antipolo Warehouse ➤ Cleaning-up works and demobilization ➤ Technical Specifications of 30.0TR Water Cooled Packaged Air Conditioning Unit
2. Installation Schedule	Monday to Sunday or per coordination with end-user/s
3. Installation Period	One Hundred Twenty (120) calendar days upon receipt of Notice to Proceed (NTP) and Advice from Project Management and Engineering Department (PMED) as to availability of project site
4. I. General Notes II. Qualification and Documentary Requirements III. Billing Requirements IV. Payment Terms	See Annex A
5. Certificate of Satisfactory Performance Template	See Annex B
6. Start-up Data Sheet	See Annex C


Prepared by:


CHRISTOPHER R. ODAD
Engineer, VBG

Reviewed by:


RICHARD MICHAEL B. DIMAPILIS
Team Leader, NCRBG North

Approved by:


ENRICO D.J. SAMANIEGO
Head, PMED

Revised Annex E-21

30 TR Water Cooled Packaged Air-conditioning Unit

Features	LBP SPECIFICATIONS
Fan Coil Application Type	
Cooling Capacity, minimum	360,000 Btu/Hr <i>or</i> 379,820 kJ/Hr <i>or</i> 105.5 kW (whichever of the three)
Energy Efficiency Ratio (EER), minimum	9.19 Btu/W-hr <i>or</i> 9.7 kJ/W-hr <i>or</i> 2.69 W/W-hr (Whichever of the three)
Evaporator Fan Air-Flow, minimum	15,600 CMH <i>or</i> 260 CMM <i>or</i> 9181 CFM (Whichever of the three)

Features	Unit	LBP SPECIFICATIONS
Power Supply	V-Hz	440-460, 60
Phase	Ø	Three
System Power Input, max	kW	28
Compressor Type		High Efficiency Fully Enclosed Scroll type
Refrigerant		R-410a/R32
Condenser		Water-cooled
Evaporator Fan		Bilateral Intake Multi-blade Fan
Lubrication		differential-pressure lubrication system
		low noise and low vibration

I. General Notes

1. General Scope of works

- a. Dismantling of air-handling units and related piping, ducting and electrical accessories and hauling-out of the same at LBP Antipolo Warehouse to facilitate the installation of the brand new water-cooled package air-conditioners.
- b. Supply, delivery, installation, start-up and commissioning of the air-conditioning equipment and its accessories and furnishing of all required consumables and other accessories not provided but necessary for proper operation of the system.
- c. The ACU contractor shall provide all the necessary components or accessories, e.g., brackets, pedestals, clamps, fasteners, air deflectors, etc., to ensure the safe, normal and efficient operation of the installed PACU;
- d. ACU contractor shall secure Work Authorization Permit from Building Administrator of the building prior start of the project.
- e. Supply of Black Iron (BI) pipes and fittings, water valves, instrumentation, support and hangers for the modification of the supply of cooling water supply and its return.
 - h.1. All piping interconnections that will require water draining of the system or portions thereof shall be well coordinated with Project Management and Engineering Department (PMED) and Property Management/ Engineering Department/Administrator of the building shall not be done without any interruptions to the building's operations during office hours.
 - h.2. ACU contractor shall conduct standard manufacturer's test (e.g. leak test, load test, etc.) for the installed PACU and submit Piping As-built plan signed and sealed by a duly licensed Professional Mechanical Engineer.
- f. Air duct connection between the new water-cooled packaged air-conditioner and existing ducting including the supply and installation of new materials such as G.I. plain sheets, polyethylene insulation with aluminum backing, dampers, support and hangers.
 - i.1. ACU Contractor shall supply and install new air ducting to connect the new 30TR water-cooled packaged air-conditioning unit (PACU) and the existing supply air ducts.
 - i.2. ACU Contractor shall leak test all completed works and submit ducting as-built plan signed by a duly licensed Professional Mechanical Engineer.
- g. Electrical and motor control system requirement of the new air-conditioning equipment including the supply and installation of new materials such as local control panels, circuit breakers and motor starters, conduits and fittings, wires, support and hangers.
 - l.1. ACU Contractor shall supply and layout Intermediate Metallic Conduit (IMC) and Thermoplastic, High Heat resistant, Nylon Jacketed (THHN) electrical wires from new Moulded Case Circuit Breaker (MCCB) to new PACU.

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

- 1.2. ACU Contractor shall test all the completed works and submit an Electrical As-built plan signed and sealed by a duly licensed Professional Electrical Engineer.
- h. Condensate drain pipe for the PACU including the supply and installation of new materials such as PVC pipe, at least 3/8" thick rubber insulation and p-trap as per recommendation of the air-conditioning unit manufacturer.
 - i. If any has been omitted in any item of work or materials which are necessary for the completion of work as outlined herein, then such item must be and hereby included in the division of work.
 - j. The ACU contractor/Supplier shall prepare all plans, application permits, and shall complete all test forms requires by all rules and regulations of all government authorities having jurisdiction over the project. The required documents shall be completed by qualified personnel, Professional Engineers in particular.
2. Other Requirements:
- a. Prospective ACU contractors are encouraged to inspect, verify and assess the existing condition, location and details of the project;
 - b. All equipment, units and parts/components to be supplied shall be brand new, clean and approved products of reputable manufacturers;
 - c. All works shall conform to the provisions (latest edition) of the Philippine Mechanical, Electrical and Building Codes, the Clean Air Act, Environmental Laws and other applicable laws and regulations;
 - d. In line with the Bank's Environmental Management System (EMS) program and being an ISO 14001 certified institution, the winning ACU contractor is required to use appropriate equipment, hand tools and personal protective gears and equipment (gloves, rubber boots, masks, etc.) during the installation, repair or maintenance activities;
 - e. All equipment shall be installed in approximate location as shown in the mechanical plans;
 - f. Any proposed change or deviation from the original mechanical plans or specifications either initiated by the ACU contractor, the end-user or due to actual site condition, must be submitted to LBP-PMED in the form of shop drawing for approval prior to implementation;
 - g. The winning ACU contractor should coordinate his works closely with the works of other trades concerned;
 - h. Installation of works shall be done in neat workmanship and like manners. All improperly set works, rough finishes or other works not in accordance with the approved plans and specifications as determined by the LBP-PMED engineer or technical representatives shall be removed and replaced within seven (7) calendar days by the ACU contractor at no extra cost;
 - i. No existing/old materials shall be re-used; e.g., circuit breakers, electrical and mechanical controls, materials and components, refrigerant pipes, fittings, insulations, etc., unless otherwise specified in the scope of works or technical specifications;
 - j. All dismantled materials shall be carefully stocked in a designated place inside the Bank's premises for its final disposal.
 - k. The ACU contractor shall exercise extreme caution and be responsible in the delivery, safe hauling/transfer of supplies, tools, equipment and/or chemicals to prevent damage to bank properties and employees. The corresponding cost to

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

- repair or replace the bank equipment, facilities or including part and components damaged or lost by the ACU contractor or its workers during the course of the project shall be deductible/chargeable to the ACU contractor;
- l. The ACU contractor shall be liable for any harm, damage or injury that may be sustained or suffered by its own crew/workers while in the performance of their duties/job under this project;
 - m. The ACU contractor shall be held directly responsible for any injury to person and/or damage to bank's property arising from the act, whether partial, contributory, or due entirely to the fault, negligence and/or dishonesty of the contractor's personnel in the course of their duties;
 - n. The ACU contractor shall maintain cleanliness of all workplace at all times. They shall clean the affected areas immediately after each workday;
 - o. The ACU contractor is required to submit the names of its worker/s who will conduct or inspect the installation. As maybe required, identification cards shall be presented;
 - p. The ACU contractor or its foreman/engineer shall coordinate with the Branch Head or its authorized representative to discuss the necessary preparations and work activities prior to implementation of this project;
 - q. The ACU contractor shall strictly observe the Bank's existing rules and regulations and shall be subject to the latter's standard security policies and procedures while inside its premises;
 - r. Payment of construction bond (if applicable) shall be charged on the account of the ACU contractor;
 - s. Should the ACU contractor fails to provide the required warranty servicing within the warranty period per submitted schedule of activities, the ACU contractor agrees, without invalidating the provisions of the warranty that the Bank may opt to contract the services of another ACU contractor/installer for the servicing of the equipment and components. The corresponding cost that will be incurred for the servicing shall be deducted from the ACU contractor's retention money;
 - t. Included in the bids or tender and warranty are the cost of consumables, basic replacement of parts, servicing and other incidental expenses of the ACU contractor or its authorized representatives, such as traveling expenses, lodging, food, etc.

II. Qualification and Documentary Requirements:

Qualification Requirement	Documentary Requirement
1. The quoted brand of prospective ACU contractor must be in the Philippine market for a minimum of Five (5) years and must be comparable to the type of Airconditioning Unit being procured (Split type, Variable Refrigerant Flow, etc.)	Copy of purchase orders, contracts or other related documents to prove that the offered brand of ACU has been in the Philippine market for at least five (5) years prior to deadline for the submission of bids.
2. The ACU contractor shall provide Satisfactory Service to its customers using the standard format of Landbank (Annex C)	<p>a. List of at least three different (3) large institutional clients (e.g. fast foods, BPOs, hospitals, funeral parlor, banks and government offices) with addresses, contact persons and telephone numbers including Certificate of Satisfactory Performance using the brand/type being offered by the prospective ACU contractor.</p> <p>b. For current and past suppliers of LANDBANK, Certificate of Satisfactory Performance and No Delayed Projects issued by the Head, Project Management and Engineering Department (PMED) not earlier than 30 calendar days prior to the deadline of submission of bid.</p>
3. The ACU contractor must have highly trained technicians who are its regular employees.	List of at least 3 highly trained technicians (regular employees) with their respective Curriculum Vitae, Certificate of Employment and National Certificate II (NC II) for Refrigeration and Air-conditioning Servicing issued by TESDA
4. The quoted brand must have 24/7 Customer Contact Center	List of at least two (2) Service Centers within the province/City of the project site.
5. The ACU contractor must be an authorized distributor of the offered product.	Manufacturer's Authorization or Back-to-Back Certification to prove that the bidder is an authorized seller/ distributor of the offered product and/or other supporting documents to satisfy the said requirements.
6. The offered product must have brochures or any other official documents	Brochure or any other official documents coming from the manufacturer showing the specifications of the offered product
7. The brand model and specifications of the offered product shall be verifiable from the website of the manufacturer.	Print-out of the Homepage of manufacturer's /brand owner's website showing the URL (web address).
8. The offered product or its manufacturer must be authorized and certified by the approving/governing body.	Bureau of Product Standards (PS), Underwriters Laboratories (UL), European Conformity (CE) or ISO certifications, whichever is available.

III. Billing Requirements

Document	Description	Due Date of Submission
1. Start Up Data Sheet (Annex D)	Duly accomplished form showing the electrical and mechanical parameters of the air-conditioning unit/s	Upon Completion
2. Seven (7) sets of As-built plans and Bill of Materials (signed and sealed by PME and PEE)	Complete Mechanical and Electrical As-built plans and Bill of Materials of the installed air-conditioning units	Upon Completion
3. Schedule of Maintenance/Monitoring Activities	The ACU contractor shall provide the standard warranty servicing for all installed equipment and its components (checking and general cleaning of the unit at least three times within the warranty period, every four (4) months after the unit/s has been installed) or earlier as the need arises. The schedule of said activities and the names of authorized representatives shall be submitted to the Branch Head or its authorized representative prior to servicing	Upon Completion
4. Warranty Certificate with inclusive dates	One (1) year warranty for the unit and for the compressor against factory/manufacturing defects on equipment, components and parts supplied and against faulty workmanship to commence upon receipt of final turn-over and acceptance documents. All equipment, parts and components found defective during and within the warranty period shall be immediately replaced without additional cost to the Bank	Upon Completion
5. Guarantee Certificate	Certificate that the spare parts and components including the aftersales services/supports that may be required by the bank to ensure the continuous and normal operation of the equipment shall be available in the next five (5) years from the date of commissioning	Upon Completion
6. Mechanical Permit	Permit from the locality. If not required by the local Building Official, the supplier shall submit a notarized certificate (attested by the LBP Branch head) that the said permit is not required by the Office of the Building Official (OBO). In any instance that the OBO required the Mechanical Permit within the warranty period, the supplier shall be the one to secure the same.	Upon Completion
7. Manuals	Operation and Preventive Maintenance Manual	Upon Completion
8. Pictures	Pictures showing angles on the left, front and right	Upon Completion

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

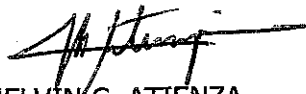
9. Certificate of Training	Certificate that the contractor conducted familiarization seminar/training to orient the end-user on the basic concept, functions and operation of the equipment installed. Said certificate must be duly noted by the end-user or its authorized representative.	Upon Completion
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IV. Payment Terms:

1. Request for payment for every completed project/installation shall be entertained after the final turn-over and acceptance of the project and upon submission of complete billing documents required by the Procurement Department;
2. Manner of Payment shall be based on the following:

Deliverables	Documents to be Submitted	Percentage of Payment
<ul style="list-style-type: none"> • Upon 100% completion and acceptance of the project 	Documents as required in item III. Billing Requirements	97%
<ul style="list-style-type: none"> • Retention fee: After 1 year of final turnover of the project 	Service Reports that the contractor conducted the warranty servicing	3%
TOTAL		100%

Prepared by:



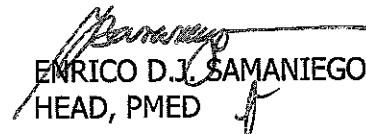
MELVIN C. ATIENZA
Engineer, PMED-NCRBG South

Reviewed by:



RICHARD MICHAEL B. DIMAPILIS
Team Leader, NCRBG North

Approved by:



ENRICO D.J. SAMANIEGO
HEAD, PMED

ANNEX B

CERTIFICATE OF SATISFACTORY PERFORMANCE

This is to certify that **(Prospective Bidder/Supplier Company Name)** has supplied our company/agency with **(Items/Goods)**. Based on our evaluation on as to specifications, performance, supplier's timely delivery, conformity to warranty and after sales service, we give a rating of:

SATISFACTORY

POOR

Below are the list of Purchase Order (POs)/ Contracts supplied and installed by **(Prospective Bidder/Supplier Company Name)**, to wit:

PO Nos./Contracts	Project Site

Issued this _____ day of _____ in (location), Philippines

Signature
(Name of Authorized Representative)
(Position)
(Agency)
(Contact No.)

LANDBANK OF THE PHILIPPINES
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

ANNEX C

NAME OF THE BRANCH : _____
LOCATION : _____
DATE : _____

P.O. NO. _____

START - UP DATA SHEET

SUPPLIER'S DATA:

Name of Supplier: _____
Address: _____
Contact Person: _____ Tel.No.: _____

INSTALLATION DATA:

Technician In-charge: _____ Accreditation No: _____
Date Started: _____ Date Finished: _____ Start-up Date: _____
PACU Model No: _____
PACU Serial No: _____

OPERATING DATA:

Suction Line Temperature: _____ Suction Line Pressure: _____
Discharge Line Temperature: _____ Discharge Line Pressure: _____
PACU Intake Air Temperature: _____ PACU Discharge Air Temp.: _____
Room Temperature: _____ Ambient Temperature: _____

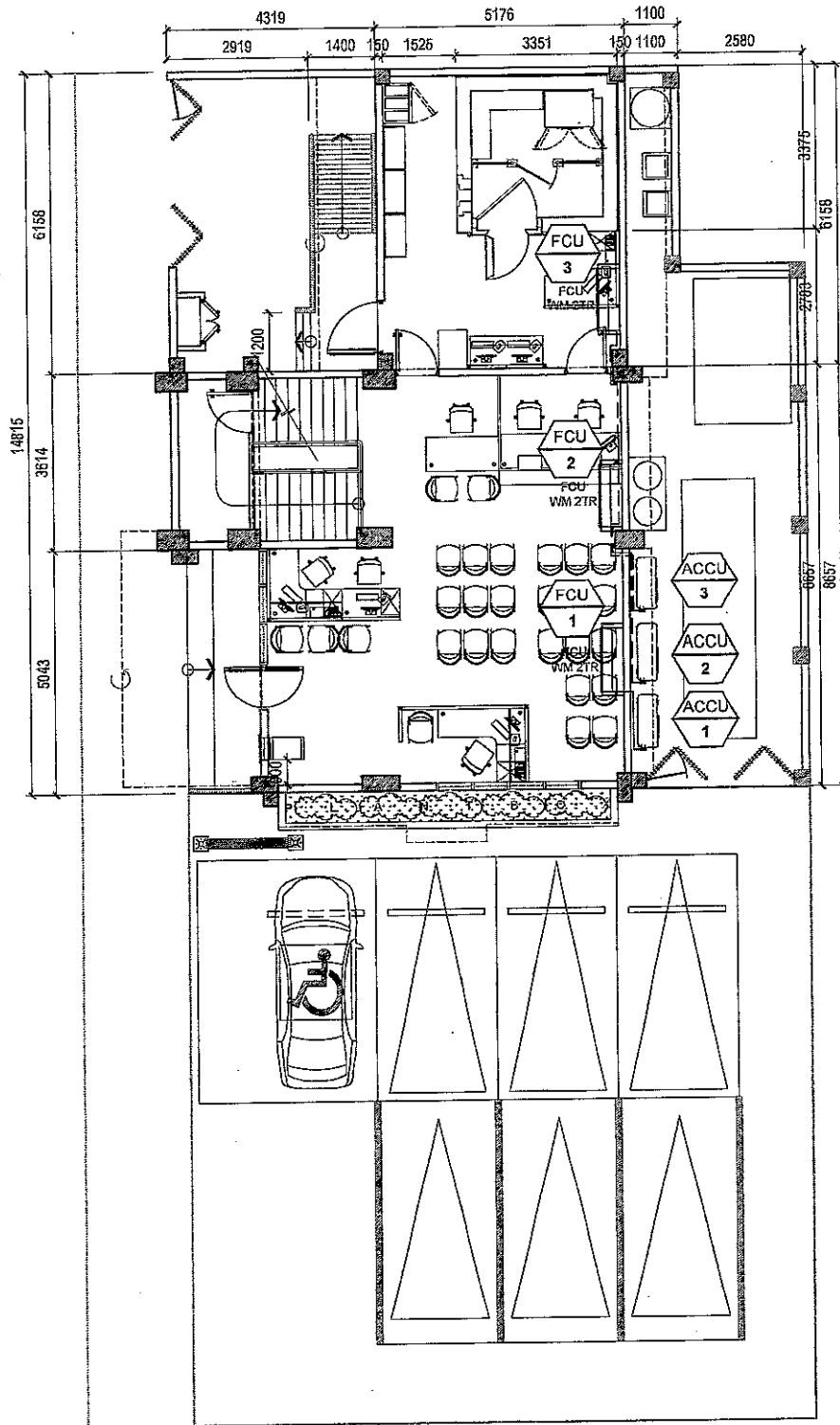
ELECTRICAL PARAMETERS:

Power Supply (Voltage), L1-L2: _____ L2-L3: _____ L3-L1: _____
Overall Ampere Readings, L1: _____ L2: _____ L3: _____
Current Draws, Compressor: _____ ACCU Fan Motor: _____ FCU Fan Motor: _____

OTHER INSTALLATION DATA

Refrigerant Piping:
Suction Diameter: _____ Length: _____ Insulation Thickness: _____
Discharge Diameter: _____ Length: _____ Insulation Thickness: _____
Drain Line:
Drain Line Diameter: _____ Length: _____ Insulation Thickness: _____
Electrical Lines:
Feeder Line Conduit Diameter: _____ Feeder Line Wire Size: _____ Length: _____
Control Line Conduit Diameter: _____ Control Line Wire Size: _____ Length: _____
Circuit Breaker: _____

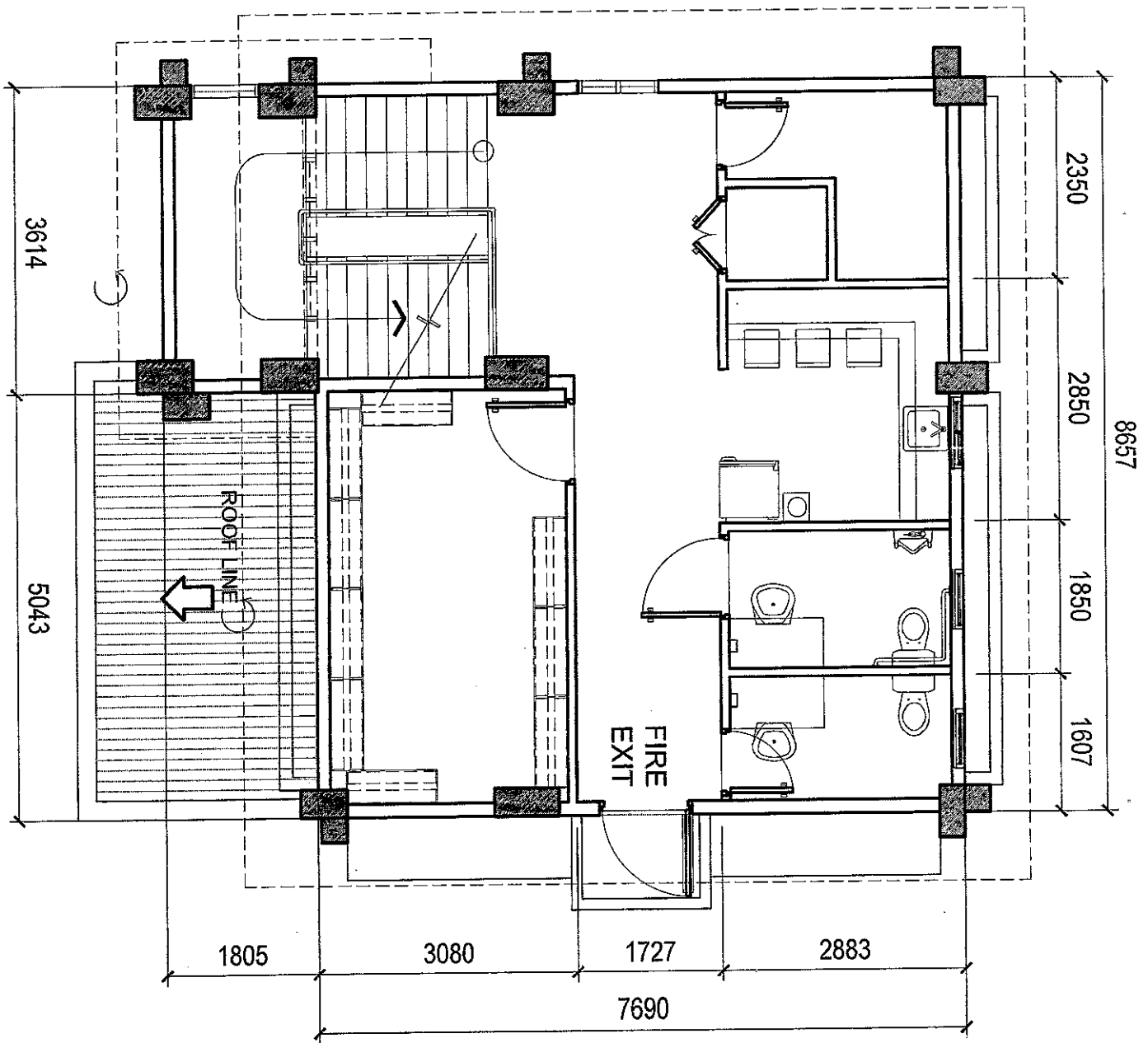
Technician's Signature over Printed Name: _____



LANDBANK SUAL AGRHUB GF

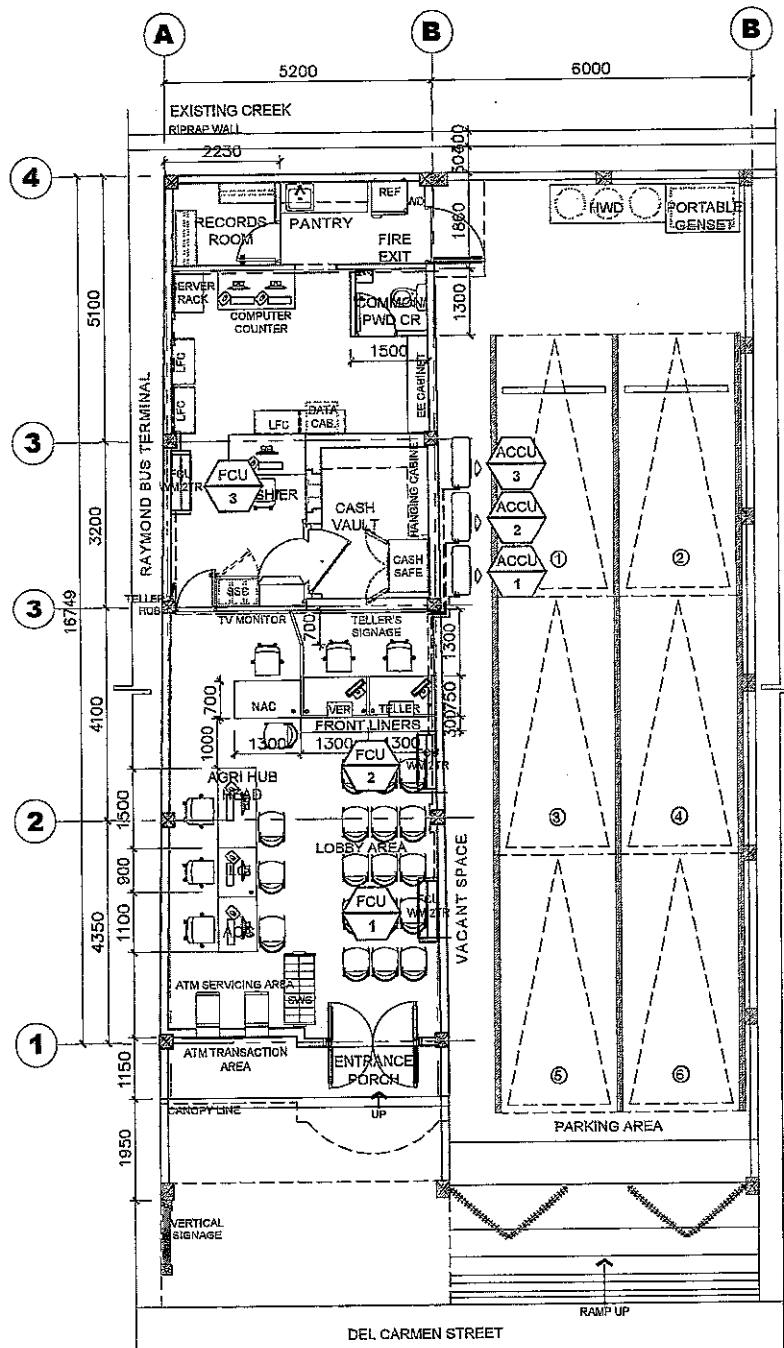
1 PROPOSED GROUND FLOOR PLAN
 M-2 SCALE 1:120 METERS

Revised D-1



LANDBANK SUAL AGRIC HUB 2F

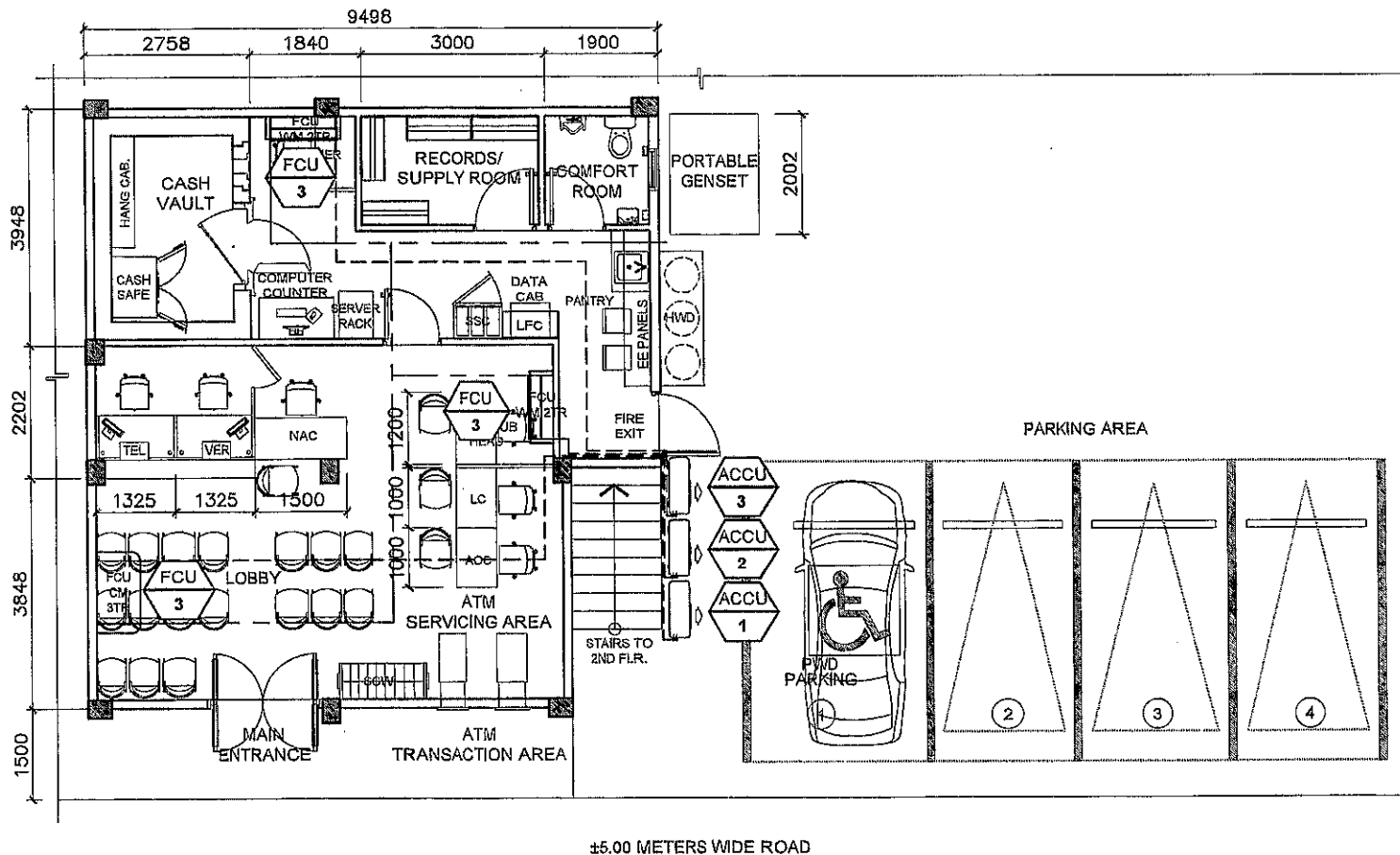
Revised D-2



**PROPOSED LANDBANK
CALABANGA AGRIHUB (FIT-OUT)**

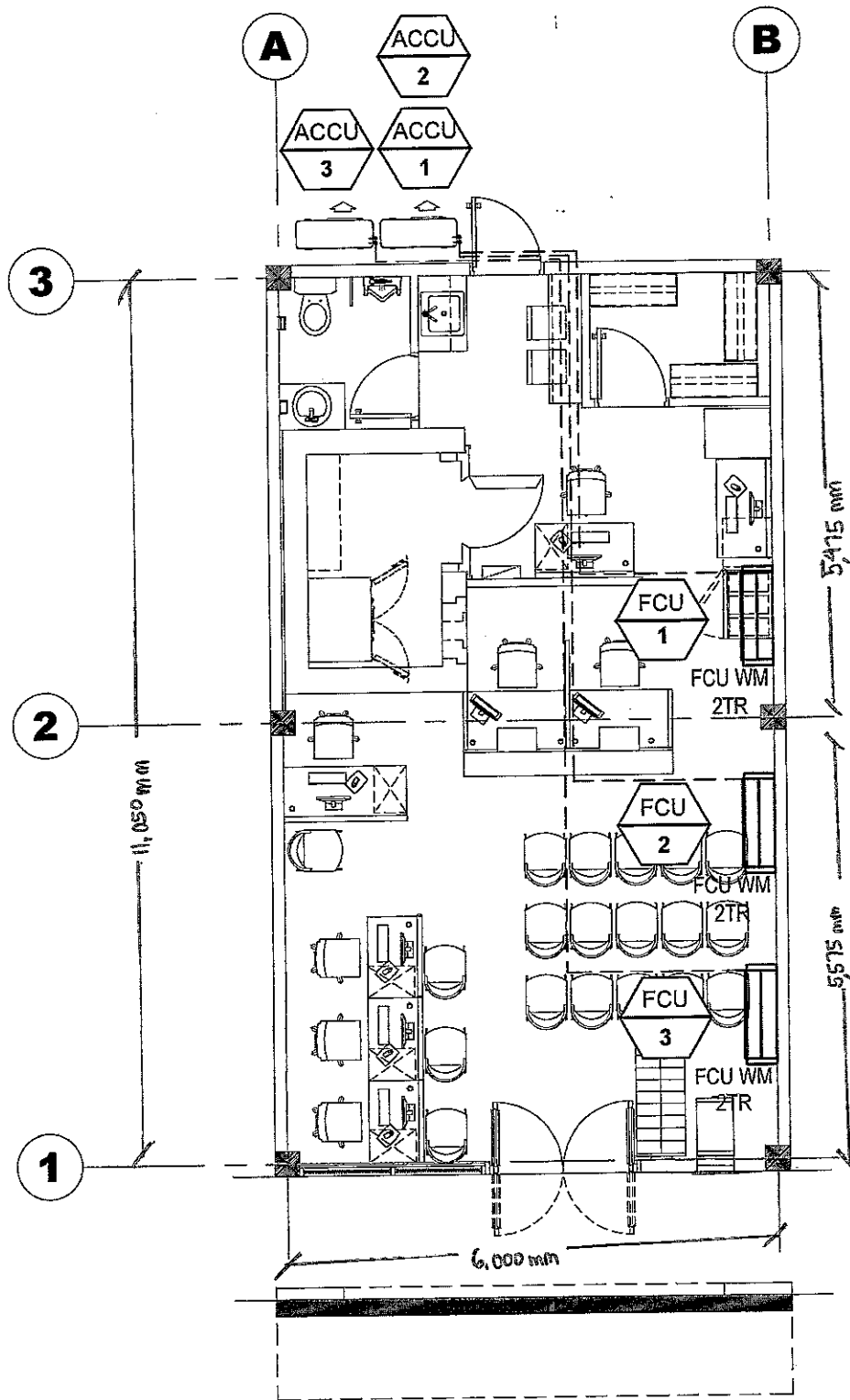
1 ACCU LAYOUT
M-2 SCALE 1:100 METERS

Revised D-4



Raised 0-5

PROPOSED LANDBANK STA MARIA AGRI-HUB



1
M-2

AIR CONDITIONING LAYOUT

SCALE

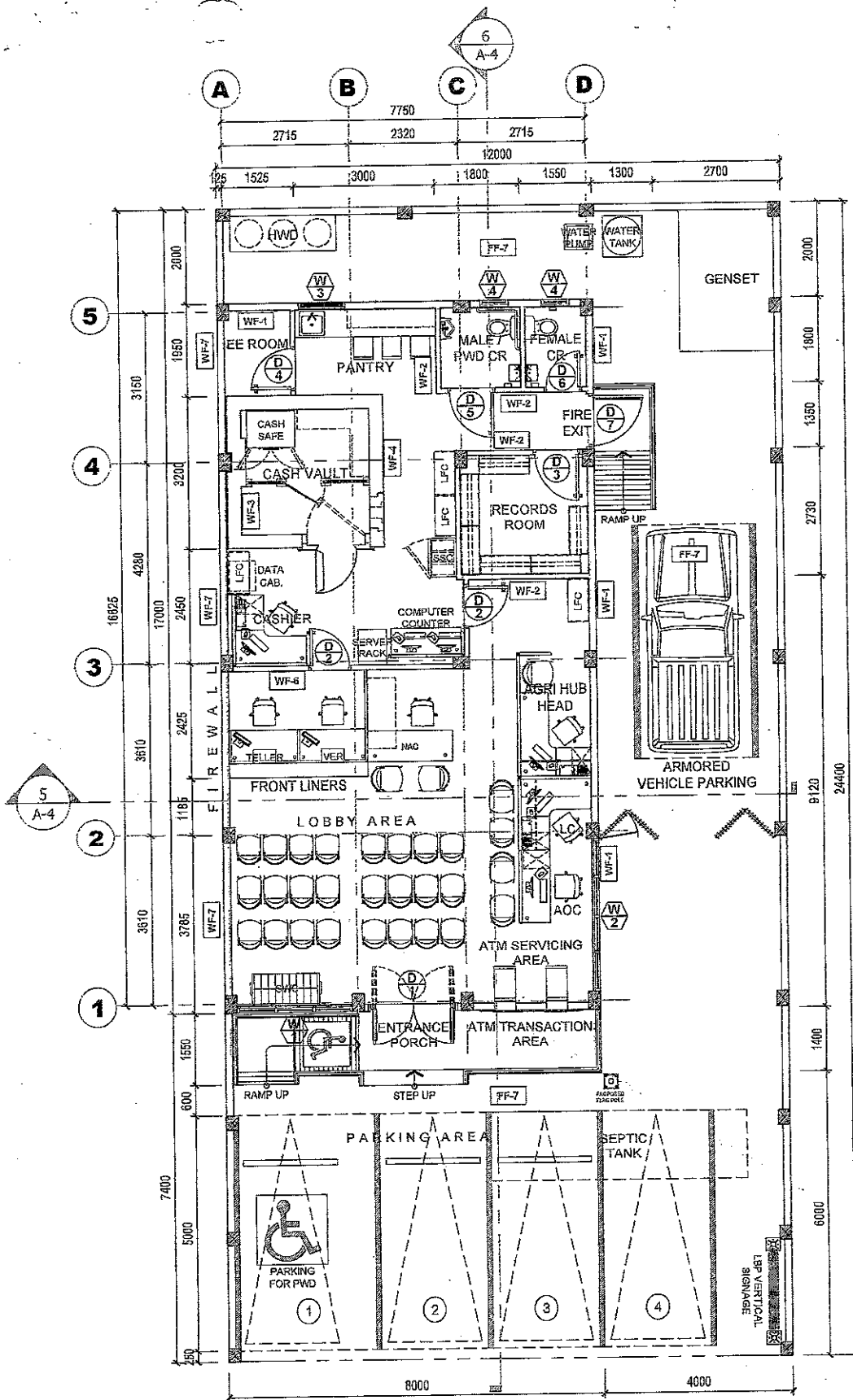
1:100

METERS

Revised D-6

LBP BAROTAC VIEJO AGRI-HUB

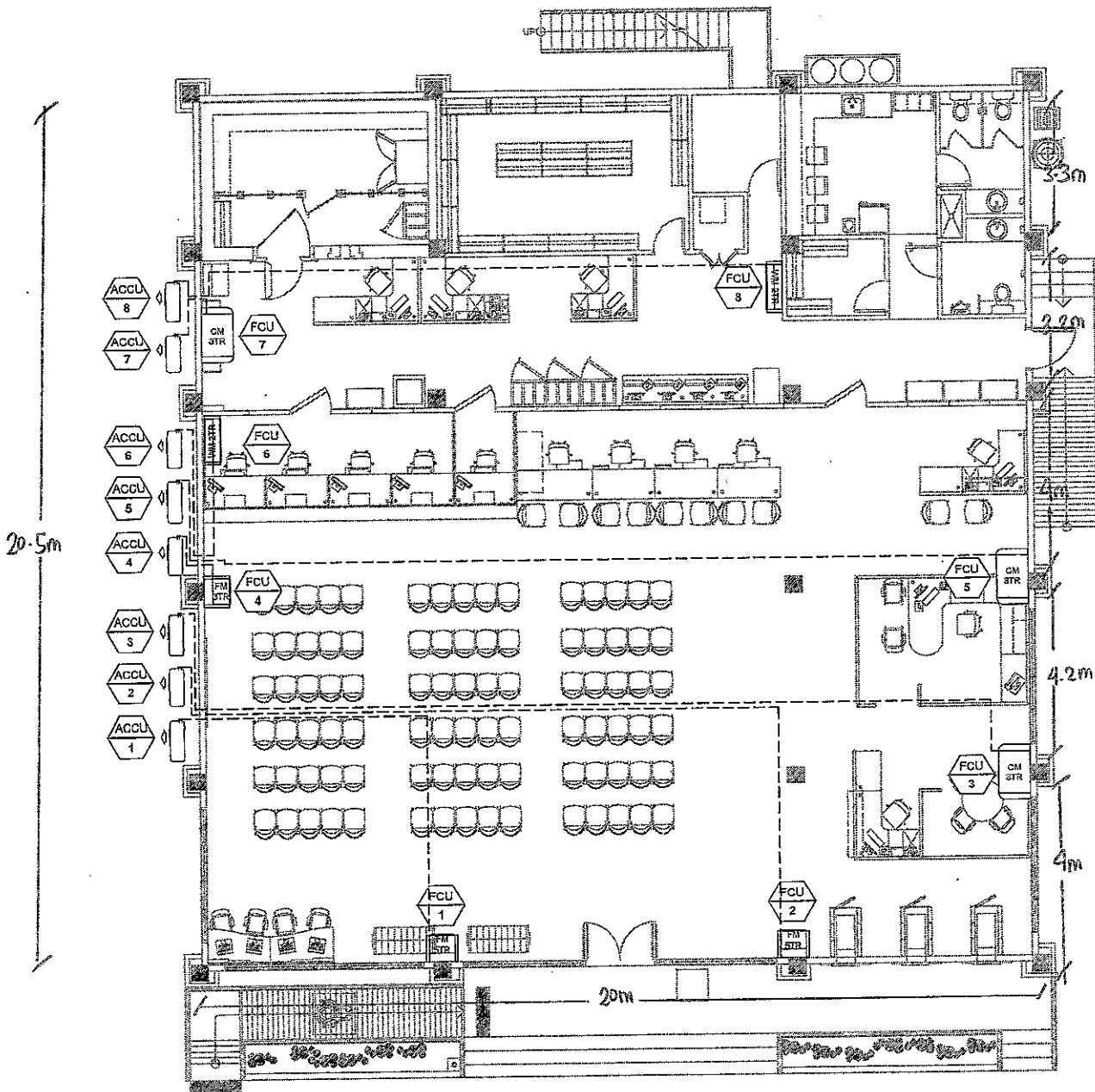
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1 PROPOSED FLOOR PLAN
A-2 SCALE 1:100 METERS

PROPOSED LANDBANK AGRI HUB

Revised Annex D-7

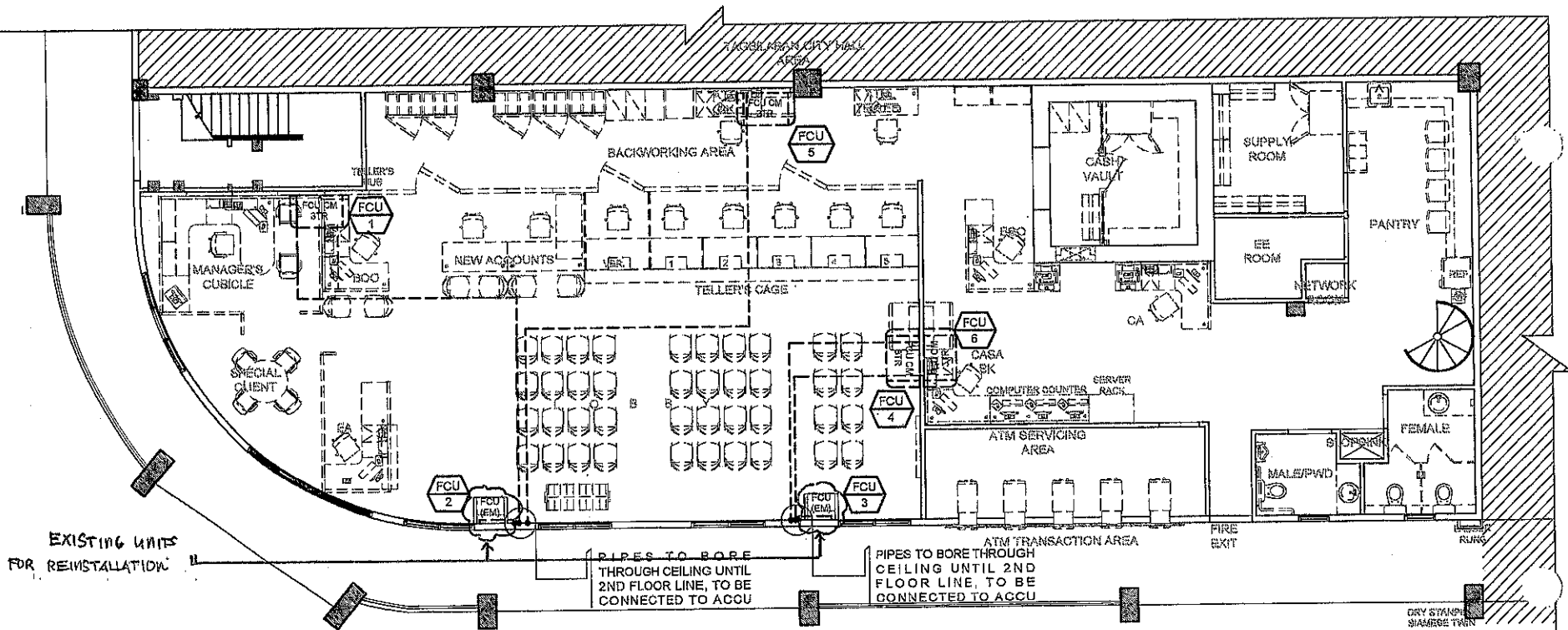


1
AIR CONDITIONING LAYOUT
 M-3 SCALE 1:100 METERS

**PROPOSED LANDBANK PAGADIAN BALINTAWAK
 (ZAMBOANGA DEL SUR) BRANCH BUILDING CONSTRUCTION
 (NEW UNIT)**

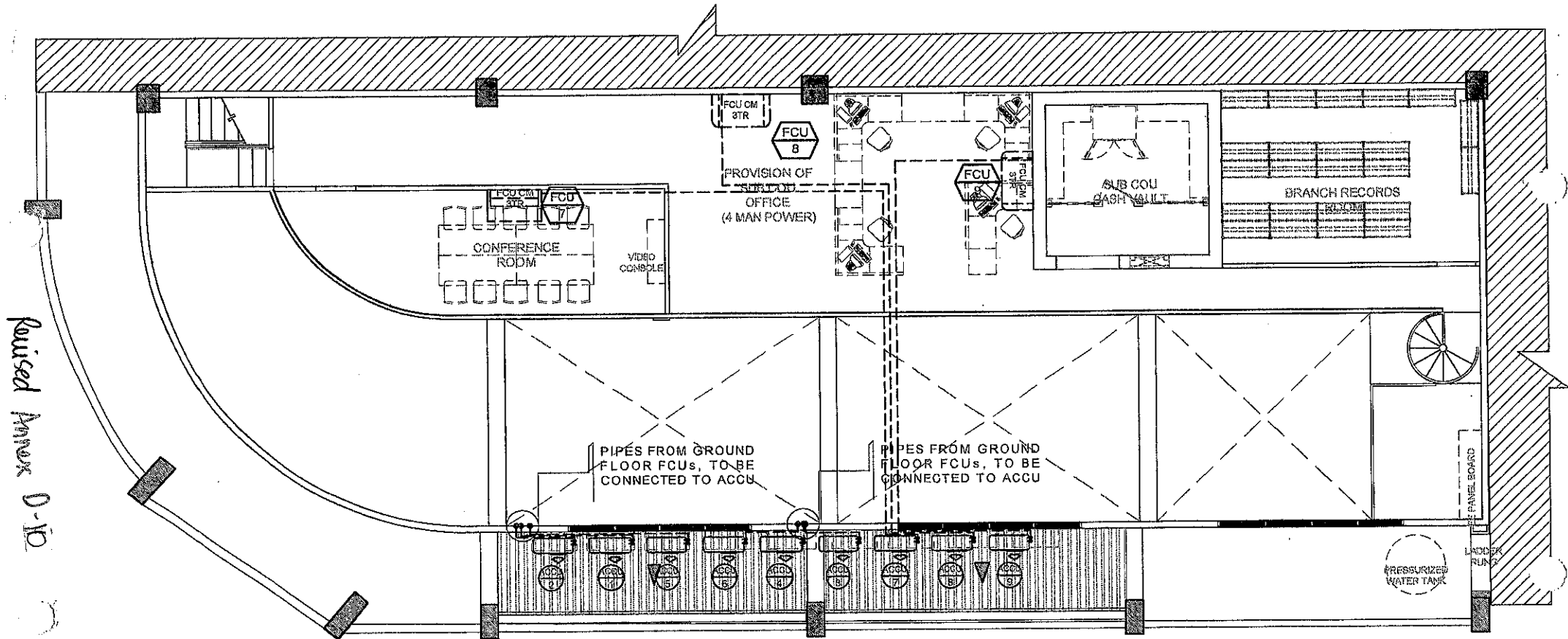
Revised 0-8

Revised Annex 0-9



1
M-2 SCALE 1:100 METERS
AT GROUND FLOOR AIRCONDITIONING LAYOUT

LBP TAGBILARAN BRANCH



2
M-2

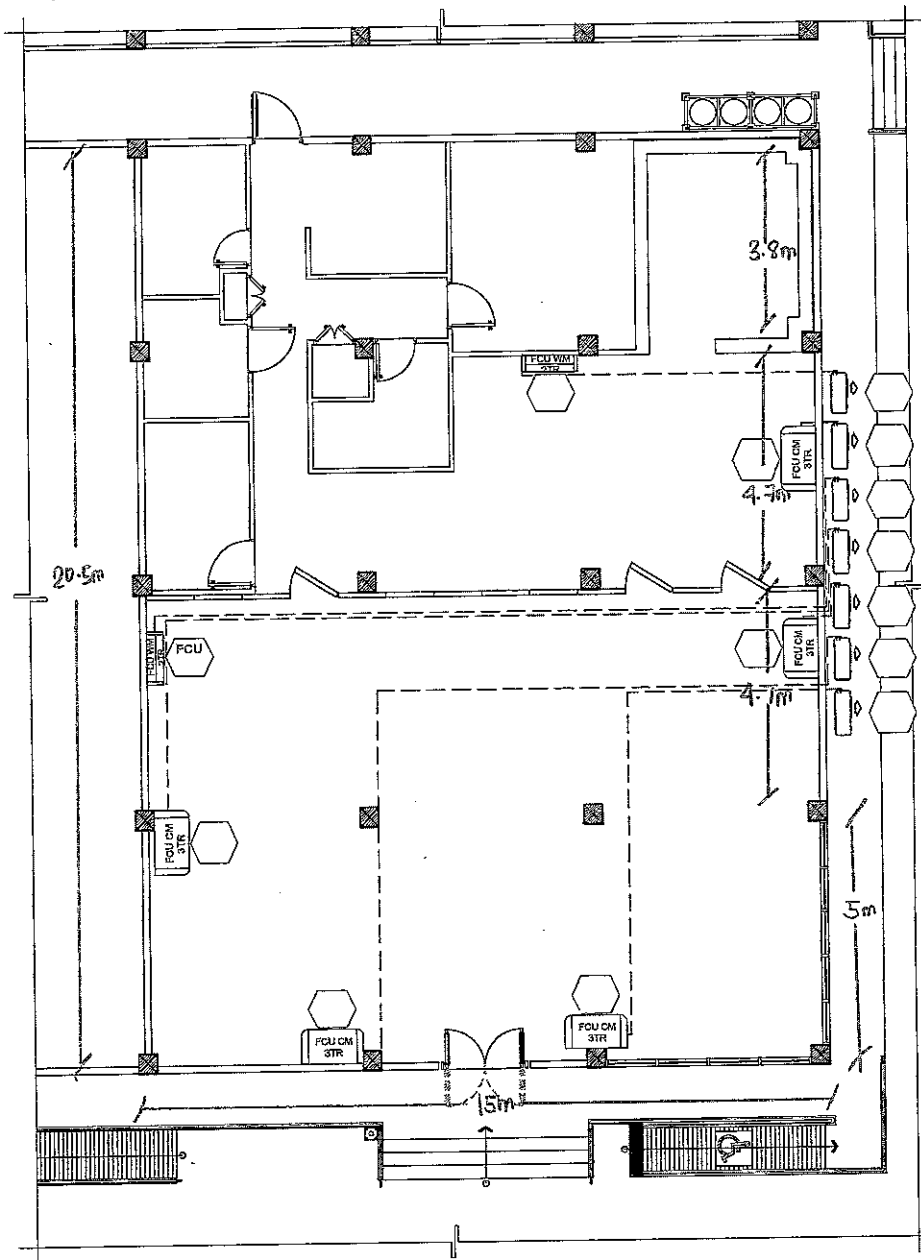
AT MEZZANINE
AIRCONDITIONING LAYOUT

SCALE 1:100 METERS

LBP TAGBILARAN BRANCH



NOTES:

- WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB.
- DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL CONDITION MUST BE IMMEDIATELY FORWARDED TO PMED FOR RESOLUTION.



1 MECHANICAL LAYOUT
 M-1 SCALE 1:150 METERS

REVISION DATE:

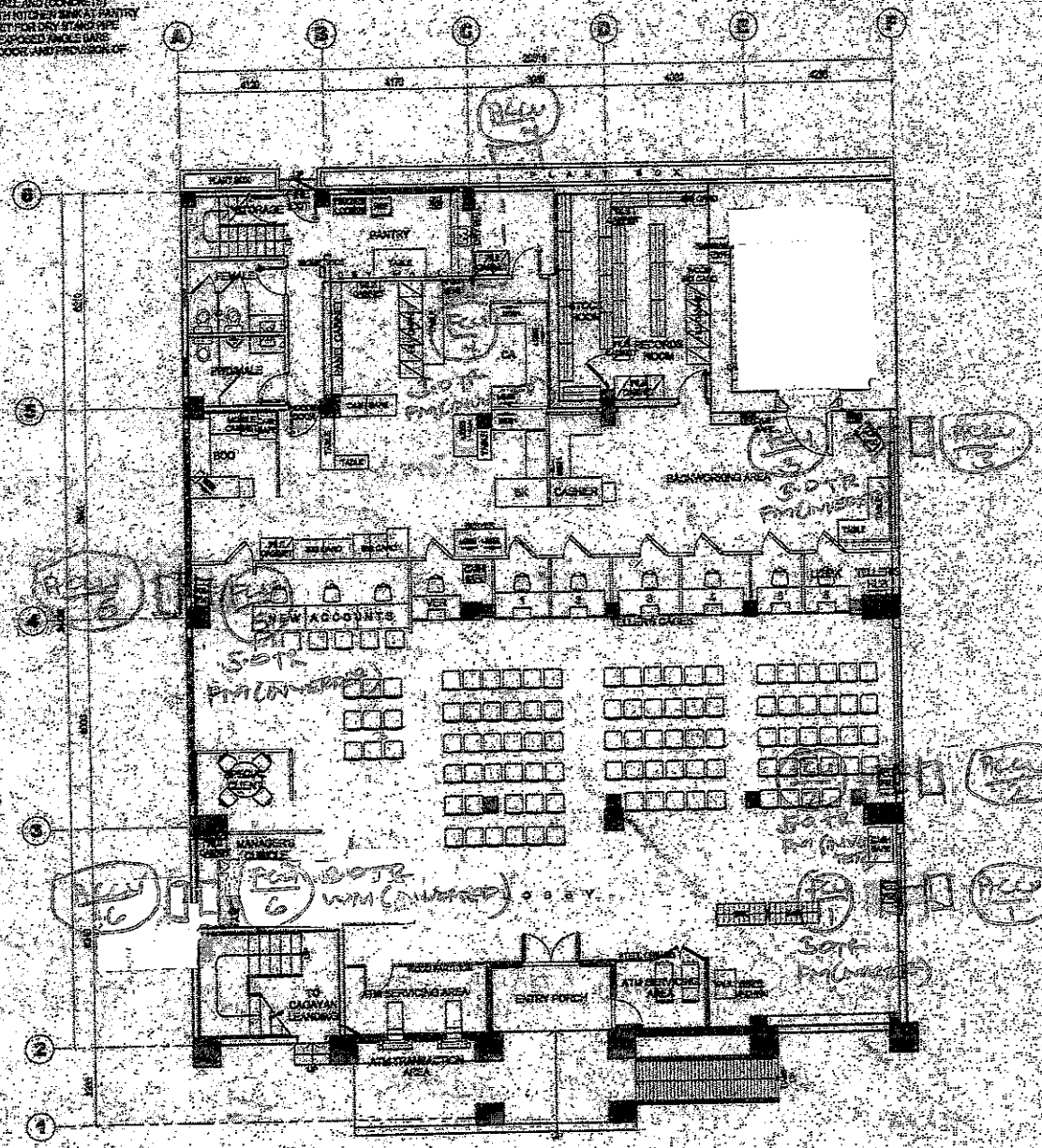
	PROJECT TITLE:	NOTED BY:	DATE:	DESIGN:	JECKA-TSU	SHEET NO:	
	PROPOSED LANDBANK IMELDA (ZAMBOANGA SIBUGAY) BRANCH (NEW UNIT)		JOHN ALBEN V. MISLANG HEAD, TSU - PMED		DRAWN:	MAUF-TSU	
	LOCATION: COMMERCIAL AREA, POBLACION, IMELDA, ZAMBOANGA SIBUGAY				DATE:	OCTOBER 2, 2020	
					CHECKED:		
				DATE:	OCTOBER 2, 2020		

Revised 0-11

NOTES:
 1. ALL DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
 2. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB.
 3. FIELD MUST BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

SCOPE OF WORK

- A. REPLACEMENT OF CRACKED TILES
- B. PROVISION OF PAVED SERVICE ROOM
- C. BATHROOMS TO BE RELOCATED
- D. INSTALLATION TWO (2) HYDRATION AND COMPUTER COUNTERS
- E. UNPOURED CRY WALL AND (CONCRETE) COUNTERTOP WITH KITCHEN SINK & SINKY
- F. UNPOURED CASHIER FIELD IN STORAGE AREA
- G. DEMOUNTING OF EXPOSED BRICK WALLS
- H. DEMOUNTING OF COOK AND PROVISION OF DRYWALL



LBP [unclear] (1)

AS FOUND GROUND FLOOR PLAN
 1
 SCALE 1/8" = 1'-0"

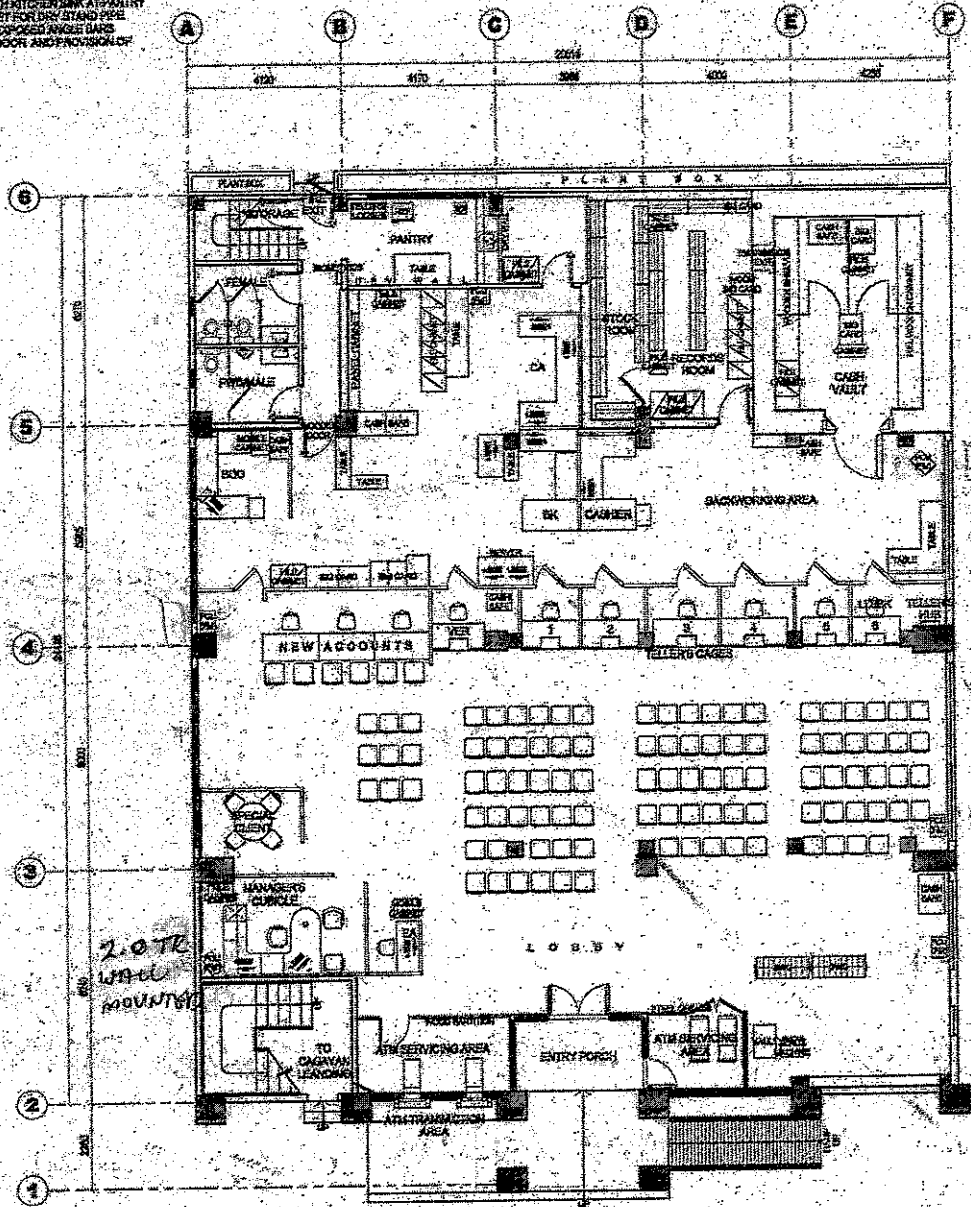
Revised Annex D-12
 MVA
 Dampup

NOTES:

- 1. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- 2. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS IN THE JOG.
- 3. PAID MUST BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.

SCOPE OF WORK

- A. REPLACEMENT OF CRACKED TILES
- B. REMOVAL OF EXISTING RECORDS ROOM
- C. SYSTEMS FURNITURE TO BE RELAYOUT
- D. ADDITIONAL TWO (2) WORKSTATION AND COMPUTER COUNTER
- E. PROVIDE DRY WALL AND CONCRETE COUNTER TOP WITH KITCHEN SINK AT PANTRY
- F. EXPOSED CABINET FOR DRY STAND PIPE
- G. DISMANTLING OF EXPOSED JOIST BARS
- H. DISMANTLING OF DOOR AND APPROX. 1/2 OF DRYWALL

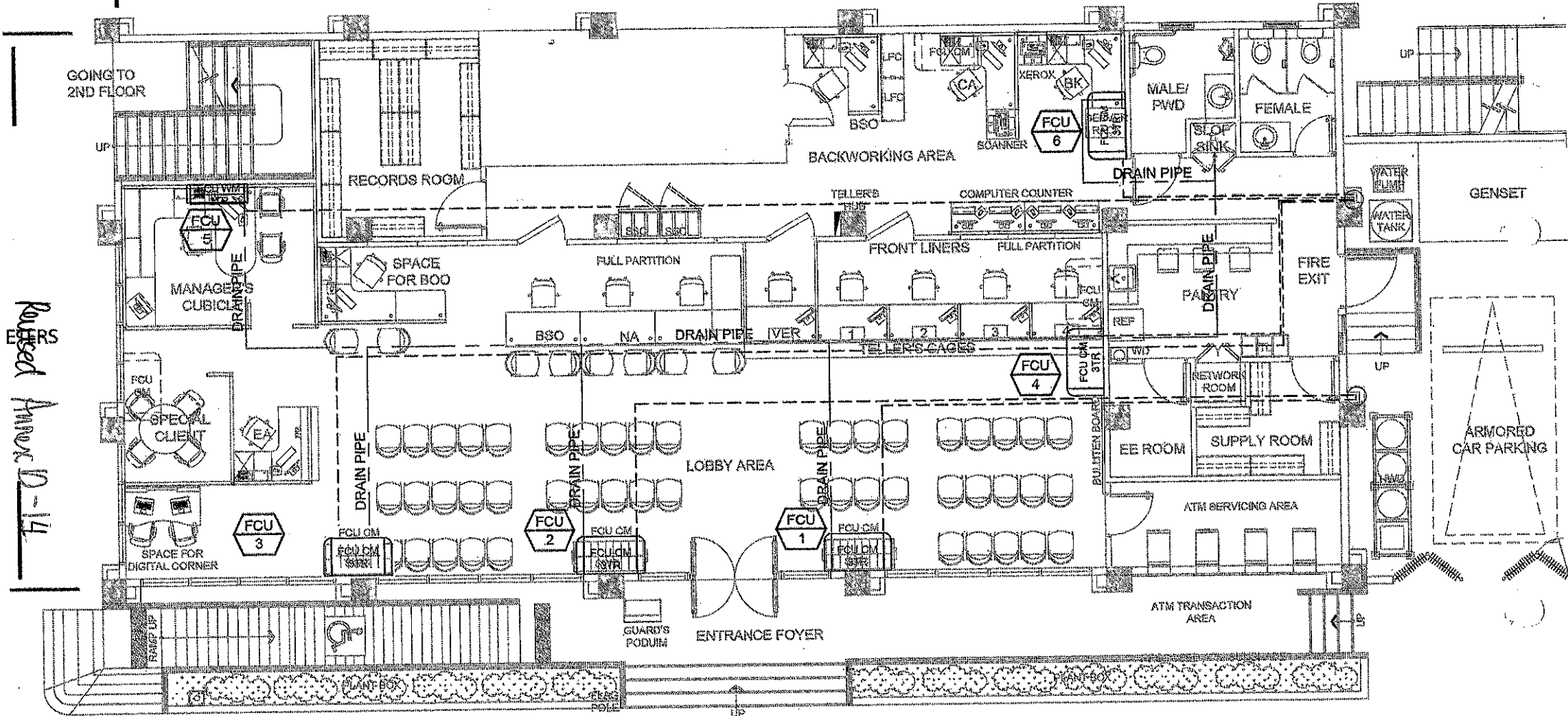


LBY *figure 10100 plan (1)*

AS FOUND
1 GROUND FLOOR PLAN
 A-3 SCALE 1/2" = 1'-0"

Revised Annex D-13
 IVAN
 JUMPUP
 LAMPAN

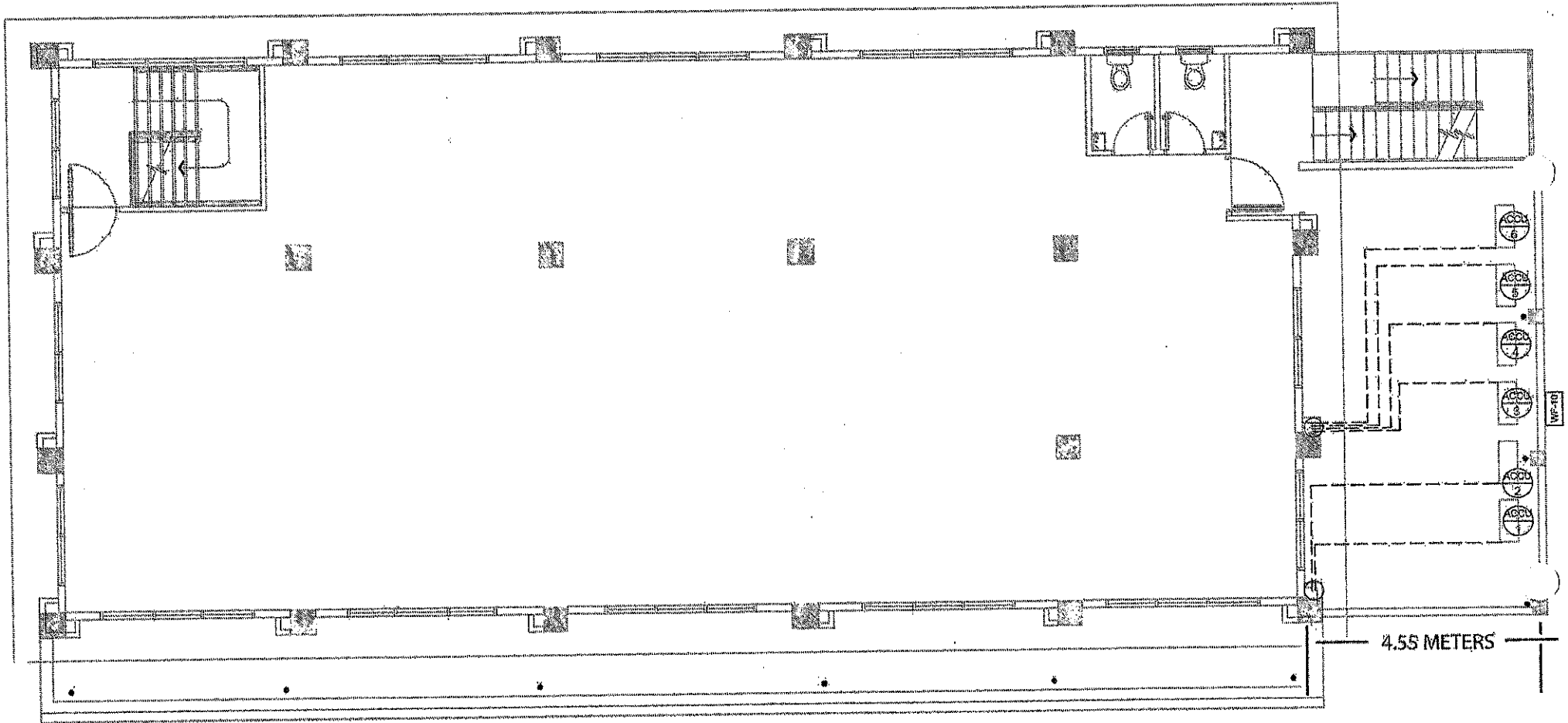
25.0 METERS



LANDBANK BUREAU BRANCH

1 ACCU LAYOUT
 M-3 SCALE NTS METERS

Revised Annex D-15



LANDBANK BURAUEN BRANCH ACCU LAYOUT
SECOND FLOOR LAYOUT

Subject: Bill of Quantities

Project: Proposed Five (5) new LANDBANK Agri-Hubs

Item No.	Project	Item Description	Qty.	Unit	Unit Cost	Total
LUZON						
1.	LANDBANK Sual, Pangasinan Agri-Hub <i>Location: Sual, Pangasinan</i>	Supply, Delivery, Installation, Testing and Commissioning of the following Air-Conditioning Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost Delivery Cost <i>(*including air/land fare and lodging cost)</i>	1 2 1 1	set sets lot lot		
SUB-TOTAL						
2.	LANDBANK Echague, Isabela Agri-Hub <i>Location: Echague, Isabela</i>	Supply, Delivery, Installation, Testing and Commissioning of the following Air-Conditioning Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost Delivery Cost <i>(*including air/land fare and lodging cost)</i>	2 2 1 1	set sets lot lot		
SUB-TOTAL						
3.	LANDBANK Calabanga, Camarines Sur Agri-Hub <i>Location: Calabanga, Camarines Sur</i>	Supply, Delivery, Installation, Testing and Commissioning of the following Air-Conditioning Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost Delivery Cost <i>(*including air/land fare and lodging cost)</i>	1 2 1 1	set sets lot lot		
SUB-TOTAL						
4.	LANDBANK Sta. Maria, Ilocos Sur Agri-Hub <i>Location: Sta. Maria, Ilocos Sur</i>	Supply, Delivery, Installation, Testing and Commissioning of the following Air-Conditioning Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost Delivery Cost <i>(*including air/land fare and lodging cost)</i>	1 2 1 1	set sets lot lot		
SUB-TOTAL						
VISAYAS						
5.	LANDBANK Barotac Viejo, Iloilo Agri-Hub <i>Location: Barotac Viejo, Iloilo</i>	Supply, Delivery, Installation, Testing and Commissioning of the following Air-Conditioning Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost Delivery Cost <i>(*including air/land fare and lodging cost)</i>	1 2 1 1	set sets lot lot		
SUB-TOTAL						
GRAND TOTAL COST						

Revised Annex E-1

Note: The Supplier shall fill in rates and prices for all items of the Bill of Quantities. Quotations not addressing or providing all of the required items in the Bill of Quantities shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free.

Submitted by:

Supplier/Contractor

Printed Name of Authorized Representative with
Signature

Date

Revised E-2

Project: LANDBANK Pagadian Balintawak Branch

Location: Pres. L2, Blk 16, Corazon Aquino Regional Gov't Center, Brgy. Balintawak, Pagadian City

Subject: Bill of Quantities (BOQ)

Item Description	Qty.	Unit	Unit Cost	Total
<i>Supply, Delivery, Installation, Testing and Commissioning of the following Air-Conditioning Units</i>				
1.0 2.0 TR Wall Mounted (Inverter Type)	2	sets		
2.0 3.0 TR Ceiling Mounted (Inverter Type)	3	sets		
3.0 3.0 TR Floor Mounted (Inverter Type)	1	set		
4.0 5.0 TR Floor Mounted (Inverter Type)	2	sets		
5.0 Installation Cost	1	lot		
Delivery Cost	1	lot		
SUB-TOTAL			Php	

Note: The Supplier shall fill in rates and prices for all items of the Bill of Quantities. Quotations not addressing or providing all of the required items in the Bill of Quantities shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free.

Submitted by:

Supplier/Contractor

Printed Name of Authorized Representative with
Signature

Date

Revised Annex E-3

Project: LANDBANK Tagbilaran Branch Renovation

Location: Bohol Provincial Capitol Complex, J.S. Torralba cor. Marapao Sts., Tagbilaran City, Bohol

Subject: Bill of Quantities (BOQ)

Item Description	Qty.	Unit	Unit Cost	Total
<i>Supply, Delivery, Installation, Testing and Commissioning of the following Air-Conditioning Units including dismantling of existing units:</i>				
1.0 <i>Relocation, Reinstallation and Recommissioning of two (2) units 3.0TR Floor Mounted ACU</i>	1	lot		
New Units:				
1.0 <i>3.0 TR Ceiling Mounted (Inverter Type)</i>	7	sets		
2.0 <i>Installation Cost</i>	1	lot		
<i>Dismantling Cost</i>	5	sets		
<i>Delivery Cost</i>	1	lot		
SUB-TOTAL			Php	

Note: The Supplier shall fill in rates and prices for all items of the Bill of Quantities. Quotations not addressing or providing all of the required items in the Bill of Quantities shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free.

Submitted by:

Supplier/Contractor

Printed Name of Authorized Representative with
Signature

Date

Revised Annex E-4

Project: LANDBANK Makati Accounting Center

Location: 5th Floor World Center Condominium Salcedo Village, Makati City

Subject: Breakdown of Materials

Item No.	Item Description	Qty.	Unit	Unit Cost	Total
LUZON					
	<i>Supply, delivery, installation, testing and commissioning including dismantling and hauling out of existing unit</i>				
1.0	30.0 TR Water-Cooled Packaged Air-Conditioning Unit floor standing, duct connection type with 110 kW nominal cooling capacity complete with two (2) 11 kW high efficiency fully unclosed scroll type compressor	1	set		
2.0	Installation Works and Miscellaneous (including delivery)	1	lot		
3.0	Dismantling and Hauling out of existing unit to Antipolo Warehouse	1	lot		
	Total				

Note: The Supplier shall fill in rates and prices for all items of the Bill of Quantities. Quotations not addressing or providing all of the required items in the Bill of Quantities shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free.

Submitted by:

Supplier/Contractor

Printed Name of Authorized Representative with Signature

Date

Revised Annex E-5

Project: LANDBANK Imelda (Zamboanga Sibugay) Branch

Location: Commercial Complex Area, Poblacion, Imelda, Zamboanga Sibugay

Subject: Bill of Quantities (BOQ)

Item Description	Qty.	Unit	Unit Cost	Total
<i>Supply, Delivery, Installation, Testing and Commissioning of the following Air-Conditioning Units</i>				
1.0 3.0 TR Ceiling Mounted (Inverter Type)	5	sets		
2.0 2.0 TR Wall Mounted (Inverter Type)	2	sets		
3.0 Installation Cost	1	lot		
4.0 Delivery Cost	1	lot		
SUB-TOTAL			Php	

Note: The Supplier shall fill in rates and prices for all items of the Bill of Quantities. Quotations not addressing or providing all of the required items in the Bill of Quantities shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free.

Submitted by:

Supplier/Contractor

Printed Name of Authorized Representative with
Signature

Date

Revised Annex E-6

ect: LANDBANK Tuguegarao Branch

rtion: LANDBANK Bldg., Bagay Road Brgy. San Gabriel Tuguegarao City, Cagayan

ject: Breakdown of Materials

Item Description	Qty.	Unit	Unit Cost	Total
LUZON				
<i>Supply, delivery, installation, testing and commissioning including dismantling of existing units</i>				
0 5.0 TR Floor Mounted (Inverter)	5	sets		
0 2.0 TR Wall Mounted (Inverter)	1	set		
0 Installation Cost (including feeder line of 2.0 TR Wall Mounted, Inverter)	1	lot		
0 Delivery Cost	1	set		
0 Dismantling Cost	6	sets		
Total				

Note: The Supplier shall fill in rates and prices for all items of the Bill of Quantities. Quotations not addressing or providing all of the required items in the Bill of Quantities shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free.

Submitted by:

Supplier/Contractor

Printed Name of Authorized Representative with
Signature

Date

Revised E-7

Project: LANDBANK Burauen Branch Construction
Location: Burauen Public Market, Burauen, Leyte
Project: Breakdown of Materials

Item Description	Qty.	Unit	Unit Cost	Total
LUZON				
<i>Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning units</i>				
3.0 TR Ceiling Mounted (Inverter)	5	sets		
2.0 TR Wall Mounted (Inverter)	1	set		
Installation Cost	1	lot		
Delivery Cost	1	set		
Total				

Note: The Supplier shall fill in rates and prices for all items of the Bill of Quantities. Quotations not addressing or providing all of the required items in the Bill of Quantities shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free.

Submitted by:

Supplier/Contractor

Printed Name of Authorized Representative with
Signature

Date

Revised E-8