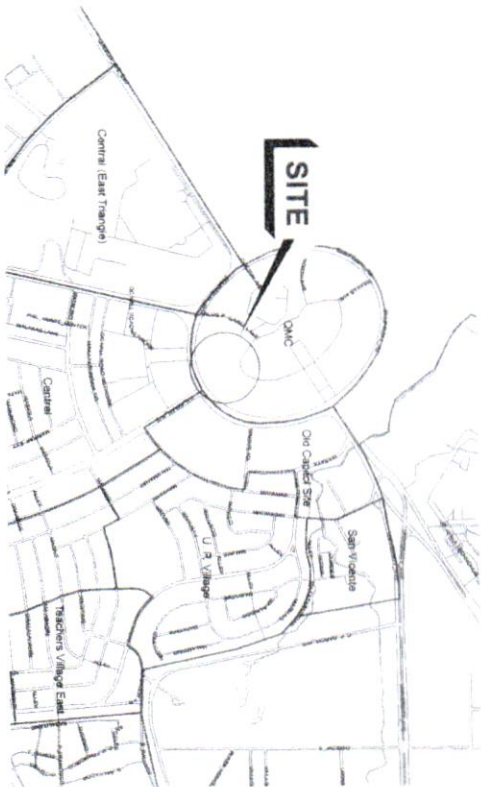
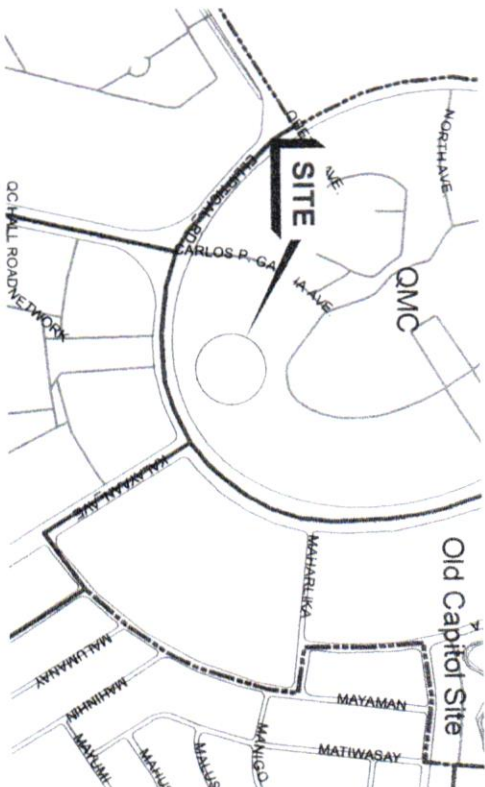
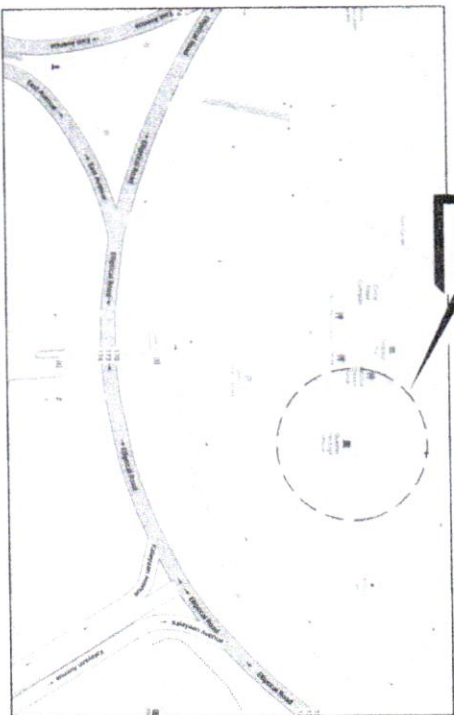




1 VICINITY MAP
AR-01 SCALE NTS



2 LOCATION MAP
AR-01 SCALE NTS



3 SITE DEVELOPMENT PLAN
AR-01 SCALE NTS

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ARCHITECTURAL

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ELECTRICAL

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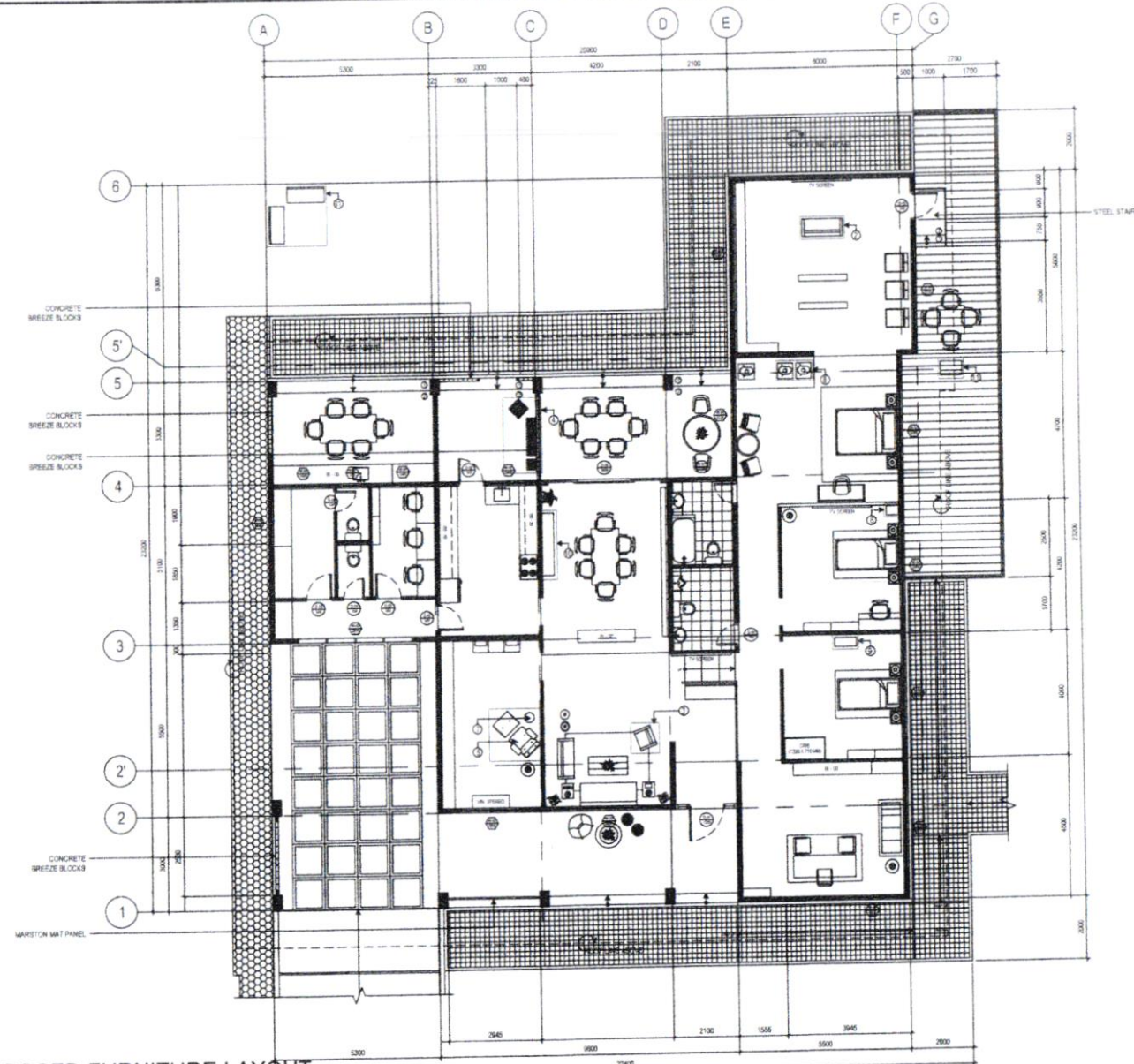
IMPROVEMENT OF BAHAY
MODERNISMO AT QUEZON CITY
MEMORIAL CIRCLE
(ADDITIONAL ITEMS)

ARCHITECT II - ARCHITECT

ENGR. FREDERICK DE GUZMAN
CHIEF PLANNING AND DESIGN DIVISION

ATTY. MARK DALE P. PERALTA
CITY ENGINEER

AR-01



ITEM NO.	DESCRIPTION
1	ROCKING GARDEN BENCH
2	GREY FABRIC 2 SEATER MODERNITY SOFA
3	GREEN FABRIC MODERNITY LOUNGE CHAIR
4	SLATTED CHAIR WITH COFFEE TABLE AND SIDE TABLE
5	LOUNGE CHAIR WITH OTTOMAN
6	1955 TURNABLE, RED PAINTED FINISH
7	WALNUT STYLE, WOOD LACQUER FINISH
8	DRESS FORM (FEMALE)
9	MODERNITY TELEVISION STAND 1, WOOD FINISH
10	MODERNITY TELEVISION STAND 2, MINT GREEN
11	3-TIER PLANT STAND, PAINT FINISH

ITEM NO.	DESCRIPTION
1	RECREATED 1955-1958 DRESS
2	3-TIER PLANT STAND, PAINT FINISH
3	OIL PAINTING
4	ANTIQUE FRAMED 1955 HOUSE DRAWING
5	VINTAGE CROQUET SET
6	VINTAGE TOYS AND FIGURINES
7	CORNER RELIEF THE LAST SUPPER WALL DECOR
8	VINTAGE BAKER OVEN CHROME COLOR
9	RETRO ANALOG CLOCK
10	WINDLE CLOCK
11	1955 BLACK ROTARY DIAL TELEPHONE WITH A CORD
12	VINTAGE SUNBURST WALL MIRROR
13	CARVED HANGING WOODEN SPOON AND FORK
14	VINTAGE TYPEWRITER
15	VINTAGE STEREO CASSETTE RECORDER
16	MANUAL COFFEE GRINDER, WOOD BARE, SMALL
17	VINTAGE WASH TUB
18	CARVED WOOD HANGING WALL DECOR
19	VINTAGE CLOCK RADIO
20	1955 DOORNE NECK CLOCK
21	LAUNDRY EVOLUTION
22	MANUAL RHYTHM CLOCK
23	VINTAGE DINNERWARE

1
AR-02
PROPOSED FURNITURE LAYOUT
SCALE 1:150 MTS



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DEPARTMENT OF ENGINEERING
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Quezon City 1100 Quezon City
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PROJECT TITLE: PURCHASE REQUEST PLAN
**IMPROVEMENT OF BAHAY
MODERNISMO AT QUEZON CITY
MEMORIAL CIRCLE
(ADDITIONAL ITEMS)**

LOCATION: BARANGAY CENTRAL, DISTRICT 4, QUEZON CITY

AS SHOWN

ARCH. RYAN D. NAVARRO
ARCHITECT

PRC NO. 322511
VALID DATE: DECEMBER 22, 2025

PTR NO. 712557
ISSUED DATE: JANUARY 10, 2025

ENGR. FREDERICK B. DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION

PRC NO. 307508
VALID DATE: MARCH 28, 2027

PTR NO. 712552
ISSUED DATE: JANUARY 10, 2025

ATTY. MARK DALE DIMON P. PERRAL
CITY ENGINEER

PRC NO. 310582
VALID DATE: FEBRUARY 18, 2025

PTR NO. 712555
ISSUED DATE: JANUARY 15, 2025

AR-02

1 GENERAL NOTES

ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS, ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANY.

1. MINIMUM SERVICE ENTRANCE SHALL BE 230V, 14, 20+4, 50HZ SYSTEM.
2. ALL WIRING METHOD FOR LIGHTING, POWER, TELEPHONE, AND DATA SYSTEM SHALL BE DONE IN PVC PIPE FOR ALL EMBEDDED IN CONCRETE SLAB AND CONCEALED IN DROP CEILING AND RSC FOR SERVICE ENTRANCE.
3. SMALLEST BRANCH CIRCUIT SHALL BE 3.5 mm THIN/TIN FOR POWER AND LIGHTING SYSTEM IN RACEWAY 15 mm+0 TRADE SIZE CONDUIT. WIRE SHALL BE INSTALLED FOR 900 VOLTS.
4. ALL BRANCH CIRCUIT HOMERUN SHALL BE INSTALLED AS INDICATED IN THE PLAN. EXPOSED CIRCUIT RUN SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE BUILDING LINE AND SUPPORTED BY CONDUIT CLAMPS EVERY 1.5 METERS. DIAGONAL CONDUIT RUN SHALL NOT BE ACCEPTED.
5. WHENEVER NECESSARY PULL BOX OF PROPER SIZE AND DIMENSION SHALL BE PROVIDED ALTHOUGH NOT INDICATED IN THE PLAN. ALL BOXES SHALL BE PROVIDED WITH METAL PLATE COVER.
6. ALL LIGHTING FIXTURES SHALL BE EQUIPPED WITH LAMP HOLDER AND LED LAMP.
7. ALL LIGHT CONTROLLED SWITCHES SHALL BE RATED 15 AMPS, 230VAC ONLY. SWITCHES SHALL BE INSTALLED FOR OPERATION WITH HORIZONTAL MOTION.
8. ALL PANEL BOARDS SHALL BE PROVIDED WITH MULTIPLE TERMINAL LUGS FOR SOLID GROUNDING, CONNECTED TO SERVICE GROUNDING SYSTEM.
9. ALL BRANCH CIRCUIT HOMERUN FOR POWER AND LIGHTING SHALL NOT BE COMBINED IN THE SAME RACEWAY.
10. FOR EACH SPARE CIRCUIT BREAKER IN PANEL BOARD PROVIDE 20mm+0 RACEWAY TERMINATING IN 100 mm DEEP TYPE SQUARE BOX WITH COVER BELOW CEILING SLAB AND SHALL BE PROVIDED WITH PULL WIRES OR AS INDICATED ON LOAD SCHEDULE.
11. ALL METALLIC CONDUITS, CHIMNEYS, BOXES AND EQUIPMENT SHALL BE PROPERLY GROUNDING AND BONDED.
12. ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED FOR THE LOCATION AND PURPOSES.
13. ALL MOLDED CASE CIRCUIT BREAKERS FOR MOTORS SHALL BE INDUSTRIAL TYPE.
14. ALL BOXES SHALL BE MADE OF CODE GAUGE STEEL WITH ZINC CHROMATE PROTECTION.
15. ALL RECEPTACLE OUTLETS SHALL BE PROPERLY GROUNDING TO THE BOX BY MEANS OF GROUNDING LUGS.
16. MOUNTING HEIGHT NOT SHOWN ON SCHEDULE ARE AS FOLLOWS:

- a. LIGHT CONTROLLED SWITCHES 1.40 METER ABOVE FLOOR FINISH AT CENTER
- b. DUPLEX CONVENIENCE OUTLET 0.30 METER ABOVE FLOOR FINISH AT CENTER UNLESS INDICATED BY THE FIELD CONDITIONS.
- c. TELEPHONE OUTLET 0.30 METER ABOVE FLOOR FINISH AT CENTER UNLESS INDICATED BY THE FIELD CONDITIONS.
- d. PANELBOARD/DISCONNECT 1.80 METER ABOVE FLOOR FINISH AT CENTER UNLESS INDICATED BY THE FIELD CONDITIONS.

17. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

PHASE A RED
PHASE B YELLOW
GROUND GREEN

18. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL WIRING PERMITS ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER, FINAL CERTIFICATE OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETE WORK.
19. THE ELECTRICAL CONTRACTOR SHALL REFER TO INTERIOR DESIGN AND ARCHITECTURAL PLAN FOR THE EXACT LOCATION, MOUNTING HEIGHT, SPACING, SPECIFICATIONS AND QUANTITY OF ALL VISIBLE WIRING DEVICES, LIGHTING FIXTURES, PANEL, ETC. IN CASE OF DISCREPANCY, INTERIOR DESIGN/DRAWINGS AND ARCHITECTURAL PLANS SHALL GOVERN.
20. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWING IN ANY CHANGES IN MOUNTING HEIGHT OR LOCATION FOR THE APPROVAL OF ARCHITECT OR ENGINEER.
21. IN CASE ANY CONFLICT BETWEEN PLANS OF DIFFERENT TRADES, ACTUAL SITE CONDITIONS OR SPECIFICATION IS EVIDENT, THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY VERIFY THE ELECTRICAL CONSULTANT.
22. ALL WIRES AND CABLE WITHIN PULL BOXES, GUTTER, AND WAREHOUSE SHALL BE BUNDLED TOGETHER PER SET AND PROPERLY AND PERMANENTLY MARKED AND LABELED SPECIFYING SIZE AND LOAD BEING SERVED EVERY 3.0 METERS.
23. EVERY LENGTH OF ALL EXPOSED CONDUIT RUN SHALL BE PROPERLY MARKED AND LABELED INDICATING LOAD SERVED. LABELING SHALL BE EVERY 3.0 METERS.
24. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY QUALIFIED LICENSED ELECTRICAL ENGINEER.

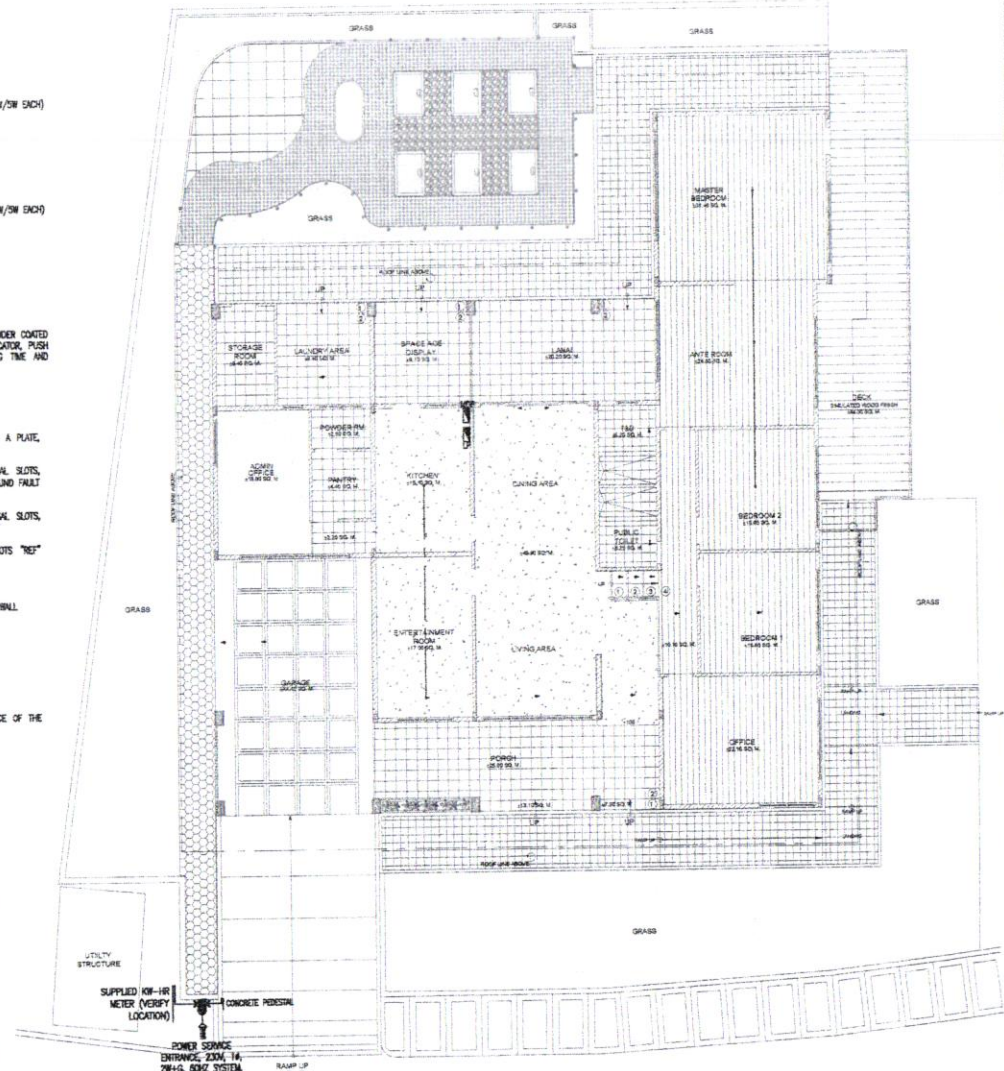
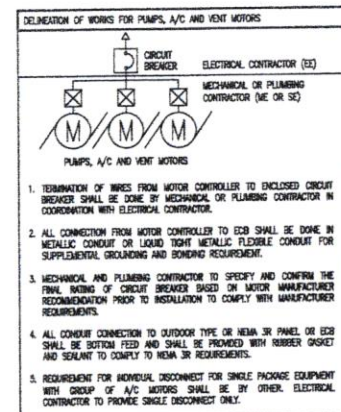
ALL MOUNTING HEIGHTS ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT / OWNER.

3 DRAWING INDEX

DRAWING TITLE
EE-01 GENERAL NOTES, LEGEND, DRAWING INDEX, SITE DEVELOPMENT
EE-02 GROUND FLOOR LIGHTING AND POWER SYSTEM LAYOUT
EE-03 SITE DEVELOPMENT LIGHTING SYSTEM LAYOUT
EE-04 LOAD SCHEDULE, DESIGN CALCULATION, WIRING DIAGRAM, IMPEDANCE DIAGRAM, SINGLE LINE DIAGRAM, VOLTAGE DROP CALCULATION AND SHORT CIRCUIT ANALYSIS

2 LEGENDS

1. LED SURFACE MOUNTED PIMLIGHT (4000K/9W/DAYLIGHT) (AS PER APPROVED BY ARCHITECT)
2. 2 PIN TRACK 3W 8/10/15/20/30 LED MOVABLE TRACK LIGHT (3000K/9W/20 ENCH) (AS PER APPROVED BY ARCHITECT)
- 1500S CONE PENDANT LIGHT OR EQUIVALENT (AS PER APPROVED BY ARCHITECT)
- LED SURFACE MOUNTED PIMLIGHT (4000K/9W/DAYLIGHT) (AS PER APPROVED BY ARCHITECT)
- 2 PIN TRACK 3W 8/10/15/20/30 LED MOVABLE TRACK LIGHT (3000K/9W/20 ENCH) (AS PER APPROVED BY ARCHITECT)
- 1500S CONE PENDANT LIGHT OR EQUIVALENT (AS PER APPROVED BY ARCHITECT)
- EXISTING SPOTLIGHT
- RATON PENDANT LIGHT OR EQUIVALENT (AS PER APPROVED BY ARCHITECT)
- BATTERY OPERATED EMERGENCY LIGHT FOR INDUSTRIAL APPLICATION POWDER COATED PAINT FINISH COMPLETE WITH MICHEL CATHOD CELLS, RED LED INDICATOR, PUSH TEST SWITCH, BATTERY PROTECTION, 2 HOURS MINIMUM OPERATING TIME AND AUTOMATIC RE-CHARGING.
- EXIT LIGHTS
- SINGLE TUMBLER SWITCH / THREE-WAY SWITCH
- TWO GANG TUMBLER SWITCH NUMBER DENOTES NUMBER OF GANG IN A PLATE, SMALL LETTER DENOTES LIGHT CONTROLLED.
- WALL MOUNTED DUPLEX CONVENIENCE OUTLET, 230V, 15A, UNIVERSAL SLOTS, GROUNDING TYPE. "WP" DENOTES WEATHER PROOF, "GFCI" DENOTES GROUND FAULT CIRCUIT INTERRUPTER.
- FLOOR MOUNTED DUPLEX CONVENIENCE OUTLET, 230V, 15A, UNIVERSAL SLOTS, GROUNDING TYPE.
- WALL MOUNTED SIMPLEX CONVENIENCE OUTLET, 15A, UNIVERSAL SLOTS "REF" DENOTES REFRIGERATOR.
- DISTRIBUTION PANEL / POWER & LIGHTING PANEL
- CONDUIT RUN EMBEDDED OR CONCEALED IN CONCRETE FLOOR SLAB OR WALL
- CONDUIT BRANCH CIRCUIT HOMERUN TO PANELBOARD
- CONDUIT RISER UP / CONDUIT RISER DOWN
- CIRCUIT BREAKER, RATING AS INDICATED
- JUNCTION BOX
- CIRCUIT HOMERUN DESIGNATION, UPPER PART DENOTES POWER SOURCE OF THE CIRCUIT WHILE LOWER HALF DENOTES CIRCUIT DESIGNATION.



5 SITE DEVELOPMENT PLAN

EE-01 SCALE

NTS



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PROJECT TITLE: PURCHASE REQUEST PLAN
IMPROVEMENT OF BAHAY MODERNISMO AT QUEZON CITY MEMORIAL CIRCLE (ADDITIONAL ITEMS)
LOCATION: BARANGAY CENTRAL, DISTRICT 4, QUEZON CITY

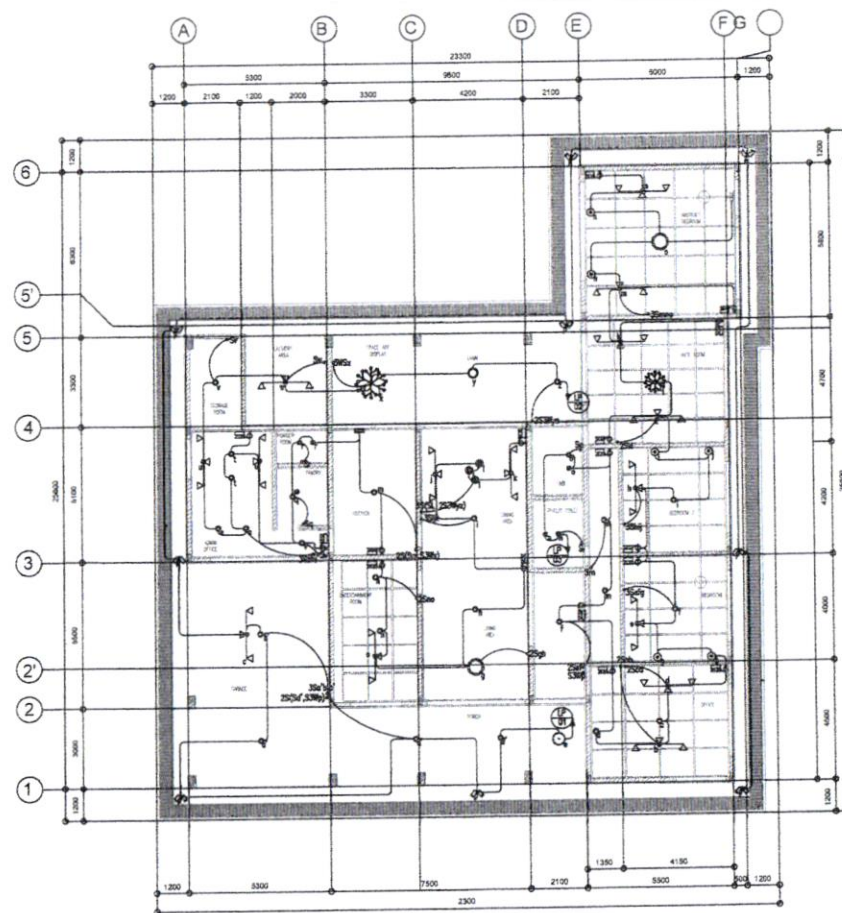
SHEET CONTENT:
AS SHOWN

DESIGNED BY:
ENGR. KELVIN M. MARZONIA
ENGINEER I - ELECTRICAL ENGINEER
PRC NO. 005286
VALID DATE: JUNE 02, 2025

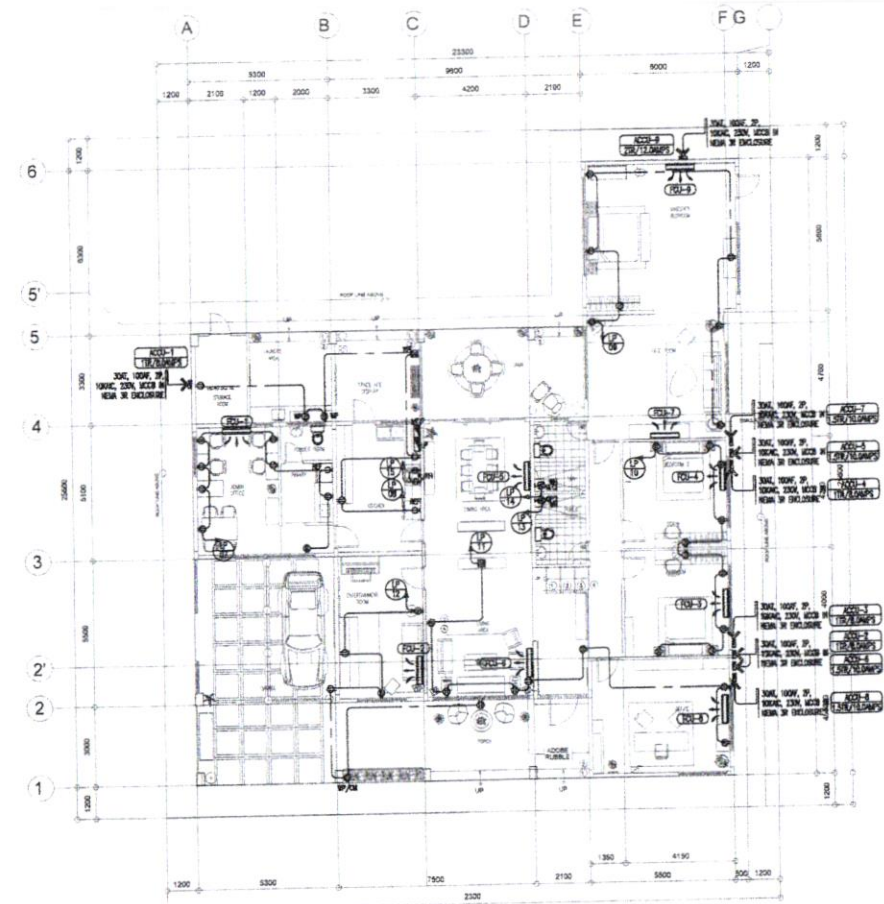
SUBMITTED BY:
ENGR. FREDISWINE D. DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION
PRC NO. 979459
VALID DATE: MARCH 28, 2027

APPROVED BY:
ATTY. MARK DALE DIAMOND P. PERRAL
CITY ENGINEER
PRC NO. 016982
VALID DATE: FEBRUARY 24, 2025

SHEET NO.:
EL-01
PRC NO. 712862
ISSUED DATE: JANUARY 13, 2025



1 GROUND FLOOR LIGHTING SYSTEM LAYOUT
 (EL-02) SCALE



1 GROUND FLOOR POWER SYSTEM LAYOUT
 (EL-02) SCALE



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PROJECT TITLE: PURCHASE REQUEST PLAN

**IMPROVEMENT OF BAHAY
 MODERNISMO AT QUEZON CITY
 MEMORIAL CIRCLE
 (ADDITIONAL ITEMS)**

AS SHOWN

LOCATION: BARANGAY CENTRAL, DISTRICT 4, QUEZON CITY

DESIGNED BY:

ENGR. KELVIN M. MARZONIA
 ENGINEER II - ELECTRICAL ENGINEER

PRC NO. 105298
 VALID DATE: JUNE 02, 2025

PTR NO. 712568
 ISSUED DATE: JANUARY 15, 2025

SUBMITTED BY:

ENGR. FREDISWINA D. DE GUZMAN
 CHIEF, PLANNING AND DESIGN DIVISION

PRC NO. 107458
 VALID DATE: MARCH 28, 2027

PTR NO. 712562
 ISSUED DATE: JANUARY 15, 2025

APPROVED BY:

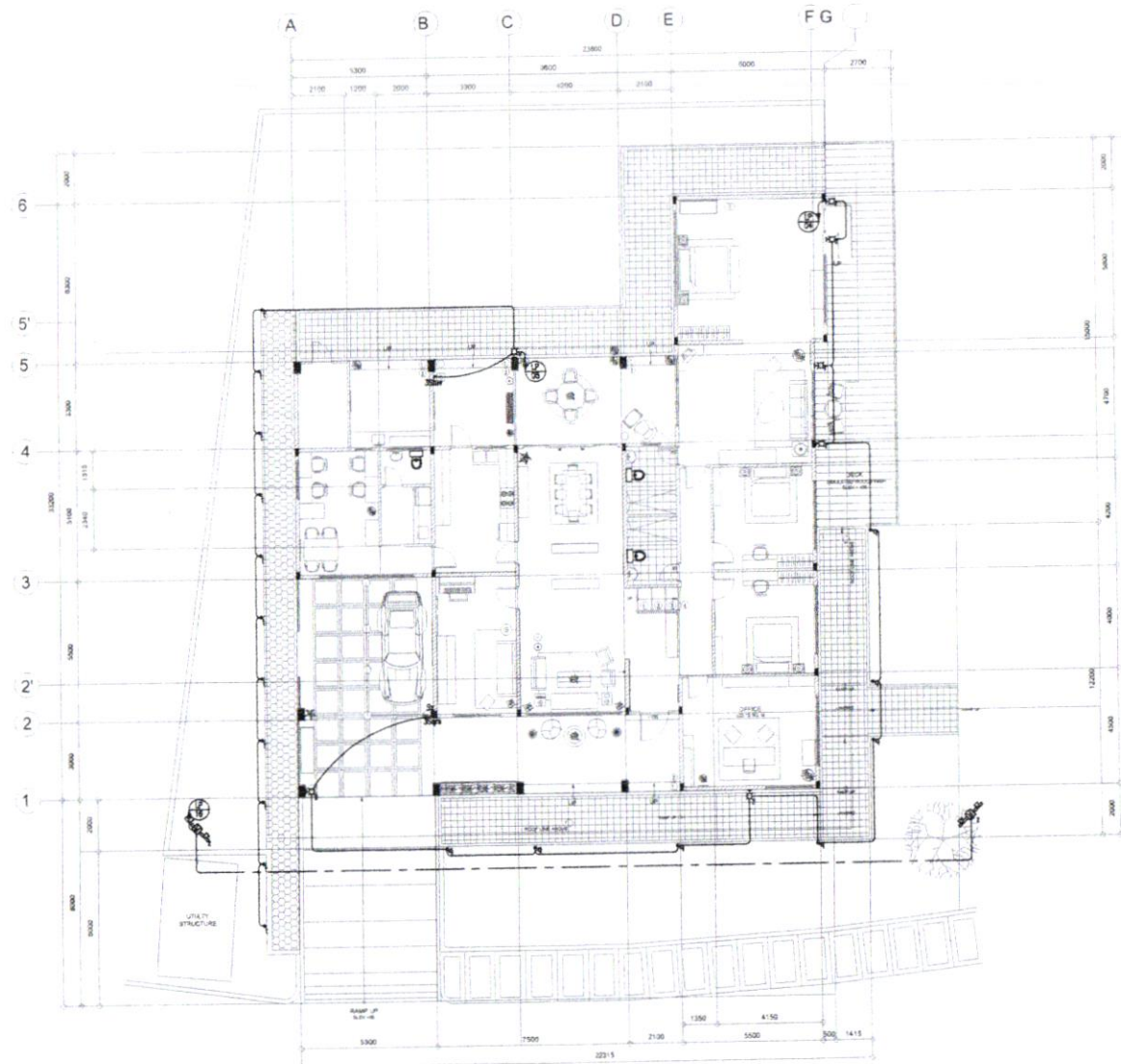
ATTY. MARK DALE DIAMON P. PERRAL
 CITY ENGINEER

PRC NO. 710562
 VALID DATE: FEBRUARY 24, 2025

PTR NO. 712565
 ISSUED DATE: JANUARY 15, 2025

SHEET NO.:

EL-02



1 SITE DEVELOPMENT LIGHTING SYSTEM LAYOUT
 EE-03 SCALE

- NOTES ON PANELBOARD:
1. MAIN CIRCUIT BREAKER SHALL BE VERTICALLY MOUNTED ON CENTER TOP OF THE PANELBOARD. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON, WOLDED CASE CIRCUIT BREAKER. WIRE JAMPER CONNECTION TO THESE BUSBAR SHALL NOT BE PERMITTED.
 2. LEADING PANELBOARD BRANCH CIRCUIT BREAKERS SHALL BE RATED 300 VOLTS FOR A TWO (2) POLE BREAKER AND SHALL HAVE A MINIMUM OF 10 KILOMMERS INTERLOCKING CAPACITY UNLESS OTHERWISE SPECIFIED.
 3. ALL PANELBOARDS SHALL BE PROVIDED WITH INSULATED TERMINAL BLOCK FOR SECOND BUS, WIRE LUGS SHALL BE PROVIDED FOR CONNECTION TO BUILDING GROUNDING SYSTEM. LOCALLY FABRICATED MULTIPLE TERMINAL BLOCK SHALL NOT BE PERMITTED.
 4. ALL PANELBOARDS SHALL BE MADE WITH MINIMUM GAUGE 18 METAL SHEET AND POWDER-COATED PAINT WITH WHITE GLOSS COLOR FINISHES.

- NOTES:
1. LOCATION OF ENCLOSED CIRCUIT BREAKER OR COMBINATION OF BREAKER AND SWITCH SHALL BE BESIDE THE PUMPS OR MOTOR BEING PROTECTED. REFER TO MECHANICAL SANITARY AND FIRE PROTECTION PLAN FOR THE RECOMMENDED LOCATION.
 2. CONDUIT CONNECTION FOR OUTDOOR TYPE OR MEMA OR PANEL OR ENCLOSED CIRCUIT BREAKER SHALL BE PROVIDED WITH GASKET AND SEALANT.
 3. FINAL RATING OF CIRCUIT BREAKER SHALL BE CONFIRMED BY THE SUPPLIER PRIOR TO INSTALLATION TO COMPLY WITH MANUFACTURER'S REQUIREMENTS.
 4. ALL CONDUIT FEEDER, VERTICAL AND HORIZONTAL, RUN SHALL BE PROVIDED WITH PERMANENT LABELING AND MARKING INDICATING ITS CAPACITY OR SIZE EVERY 3 METERS.



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PROJECT TITLE: PURCHASE REQUEST PLAN
**IMPROVEMENT OF BAHAY
 MODERNISMO AT QUEZON CITY
 MEMORIAL CIRCLE
 (ADDITIONAL ITEMS)**
 LOCATION: BARANGAY CENTRAL DISTRICT 4, QUEZON CITY

SHEET CONTENT:
 AS SHOWN

DESIGNED BY:
ENGR. KELVIN M. MARZONIA
 ENGINEER II - ELECTRICAL ENGINEER
 PRC NO. 0554261
 VALID DATE: JUNE 02, 2025

SUBMITTED BY:
ENGR. FREDISWILDO C. DE GUZMAN
 CHIEF, PLANNING AND DESIGN DIVISION
 PRC NO. 9274668
 VALID DATE: MARCH 28, 2025

APPROVED BY:
ATTY. MARK DALE D. PERRALTA
 CITY ENGINEER
 PTR NO. 7125562
 ISSUED DATE: JANUARY 15, 2025

SHEET NO.
EL-03

1 LOAD SCHEDULE

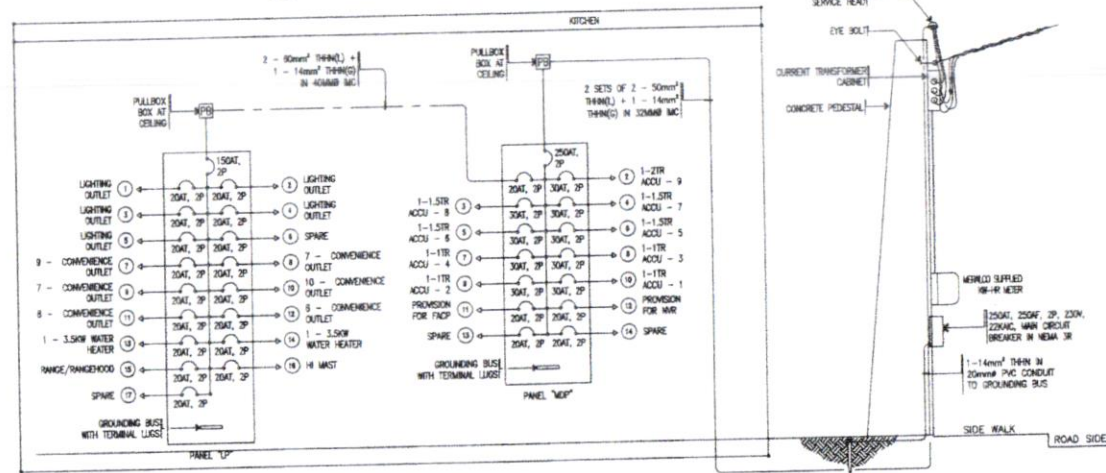
PANEL: MWP									
MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDERED PAINT FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND BUS.									
LOCATION: AS PER PLAN									
OUT. NO.	LOAD DESCRIPTION	VOLT	WATTS	AMPS	AF	PF	KVAR	TYPE	WIRE & CONDUIT
1	1-2.0TR ACCU - 9	230	2780	12.00	30	100	2	10	MCCB
2	1-1.5TR ACCU - 8	230	2300	10.00	30	100	2	10	MCCB
3	1-1.5TR ACCU - 7	230	2300	10.00	30	100	2	10	MCCB
4	1-1.5TR ACCU - 6	230	2300	10.00	30	100	2	10	MCCB
5	1-1.5TR ACCU - 5	230	2300	10.00	30	100	2	10	MCCB
6	1-1TR ACCU - 4	230	1840	8.00	30	100	2	10	MCCB
7	1-1TR ACCU - 3	230	1840	8.00	30	100	2	10	MCCB
8	1-1TR ACCU - 2	230	1840	8.00	30	100	2	10	MCCB
9	1-1TR ACCU - 1	230	1840	8.00	30	100	2	10	MCCB
10	PROVISION FOR FACP	230	1000	4.35	20	100	2	10	MCCB
11	PROVISION FOR HIR	230	1000	4.35	20	100	2	10	MCCB
12	SPARE	230	1000	4.35	20	100	2	10	MCCB
13	SPARE	230	1000	4.35	20	100	2	10	MCCB
14	SPARE	230	1000	4.35	20	100	2	10	MCCB

PANEL: LP									
MOUNTING: NEMA 1, SURFACE MOUNTED WITH GRAY POWDERED PAINT FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND BUS.									
LOCATION: AS PER PLAN									
OUT. NO.	LOAD DESCRIPTION	VOLT	WATTS	AMPS	AF	PF	KVAR	TYPE	WIRE & CONDUIT
1	LIGHTING OUTLET	230	500	2.17	20	100	2	10	MCCB
2	LIGHTING OUTLET	230	990	4.30	20	100	2	10	MCCB
3	LIGHTING OUTLET	230	1140	4.98	20	100	2	10	MCCB
4	LIGHTING OUTLET	230	850	3.68	20	100	2	10	MCCB
5	LIGHTING OUTLET	230	1350	5.87	20	100	2	10	MCCB
6	SPARE	230	1100	4.78	20	100	2	10	MCCB
7	9 - CONVENIENCE OUTLET	230	1820	7.94	20	100	2	10	MCCB
8	7 - CONVENIENCE OUTLET	230	1280	5.48	20	100	2	10	MCCB
9	7 - CONVENIENCE OUTLET	230	1280	5.48	20	100	2	10	MCCB
10	10 - CONVENIENCE OUTLET	230	1820	7.94	20	100	2	10	MCCB
11	8 - CONVENIENCE OUTLET	230	1080	4.70	20	100	2	10	MCCB
12	6 - CONVENIENCE OUTLET	230	1080	4.70	20	100	2	10	MCCB
13	1 - 3.5KW WATER HEATER	230	3500	15.22	20	100	2	10	MCCB
14	1 - 3.5KW WATER HEATER	230	3500	15.22	20	100	2	10	MCCB
15	RANGE/RANGEHOOD	230	5500	23.91	30	100	2	10	MCCB
16	H. WAST	230	1500	6.52	20	100	2	10	MCCB
17	SPARE	230	1000	4.35	20	100	2	10	MCCB

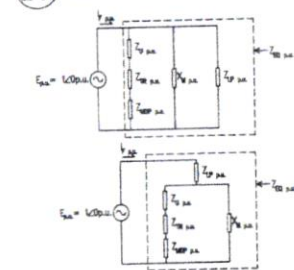
2 DESIGN CALCULATION

PANEL: MWP		PANEL: LP	
1. AIR CONDITIONING LOAD		1. LIGHTING LOAD	
A. 1-2TR ACCU AT 12.00 AMPS	2780 VA	1. LIGHTING LOAD	14400 VA
B. 4-1.5TR ACCU AT 10.00 AMPS	9200 VA	2. OTHER LOADS	
C. 4-1TR ACCU AT 8.00 AMPS	7360 VA	A. SMALL APPLIANCE LOAD	8480 VA
SUB-TOTAL	19320 VA	B. 2 - 3.5KW WATER HEATER	7000 VA
2. OTHER LOADS		SUB-TOTAL	15480 VA
A. PANEL LP	29880 VA	5. SERVICE ENTRANCE CALCULATION	
B. PROVISION FOR HIR	1000 VA	USE: 2-50mm ² (L) + 1-14mm ² (G) 30mm/THIN IN 40mm MC	
C. PROVISION FOR FACP	1000 VA	150AT, 225AF, 2P, 230V, 22KVAR MCCB	
SUB-TOTAL	31880 VA		
3. OTHER LOADS			
TOTAL CONNECTED LOAD	51180 VA		
4. SERVICE ENTRANCE CALCULATION			
USE: 51180 + (25% x 27880) = 230V	225.52 AMPS		

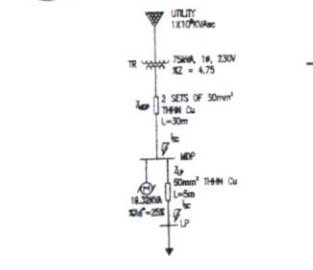
3 RISER DIAGRAM



4 IMPEDANCE DIAGRAM



5 SINGLE LINE DIAGRAM



7 SHORT CIRCUIT ANALYSIS

PANEL: MWP		PANEL: LP	
1. AIR CONDITIONING LOAD		1. LIGHTING LOAD	
A. 1-2TR ACCU AT 12.00 AMPS	2780 VA	1. LIGHTING LOAD	14400 VA
B. 4-1.5TR ACCU AT 10.00 AMPS	9200 VA	2. OTHER LOADS	
C. 4-1TR ACCU AT 8.00 AMPS	7360 VA	A. SMALL APPLIANCE LOAD	8480 VA
SUB-TOTAL	19320 VA	B. 2 - 3.5KW WATER HEATER	7000 VA
2. OTHER LOADS		SUB-TOTAL	15480 VA
A. PANEL LP	29880 VA	5. SERVICE ENTRANCE CALCULATION	
B. PROVISION FOR HIR	1000 VA	USE: 2-50mm ² (L) + 1-14mm ² (G) 30mm/THIN IN 40mm MC	
C. PROVISION FOR FACP	1000 VA	150AT, 225AF, 2P, 230V, 22KVAR MCCB	
SUB-TOTAL	31880 VA		
3. OTHER LOADS			
TOTAL CONNECTED LOAD	51180 VA		
4. SERVICE ENTRANCE CALCULATION			
USE: 51180 + (25% x 27880) = 230V	225.52 AMPS		



Republika ng Pilipinas
Lungsod ng Quezon
DEPARTMENT OF ENGINEERING
Office: Central Building 8, City Hall Compound, Elliptical Road
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PROJECT TITLE: PURCHASE REQUEST PLAN
IMPROVEMENT OF BAHAY MODERNISMO AT QUEZON CITY MEMORIAL CIRCLE (ADDITIONAL ITEMS)
LOCATION: BARANGAY CENTRAL, DISTRICT 4, QUEZON CITY

DESIGNED BY: ENGR. KELVIN M. GONZALEZ
ENGINEER 1 - ELECTRICAL ENGINEER
PRC NO. 305258
PTR NO. 112588
ISSUED DATE: JANUARY 10, 2025

SUBMITTED BY: ENGR. FREDERICK DE GUZMAN
CHIEF, PLANNING AND DESIGN DIVISION
PRC NO. 305258
PTR NO. 112588
ISSUED DATE: JANUARY 10, 2025

APPROVED BY: ATTY. MARK DALE DIAMOND P. PERRAL
CITY ENGINEER
PRC NO. 305258
PTR NO. 112588
ISSUED DATE: JANUARY 10, 2025

EL-04

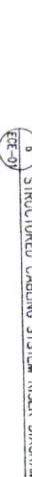
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- 2 NOTES

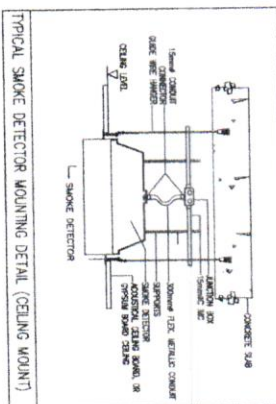
EECE-07

CHIEF COMPLAINT: ALL CHART		
NUMBER OF RIMS	WIRE	CONCAVE SIZE
0	007 3/4 (4 PWS)	15mm x 6
2a	007 5/8 (4 PWS)	15mm x 6
2a	007 5/8 (4 PWS)	20mm x 6
4a	007 3/4 (4 PWS)	20mm x 6
5a	007 5/8 (4 PWS)	20mm x 6
5a	007 5/8 (4 PWS)	20mm x 6

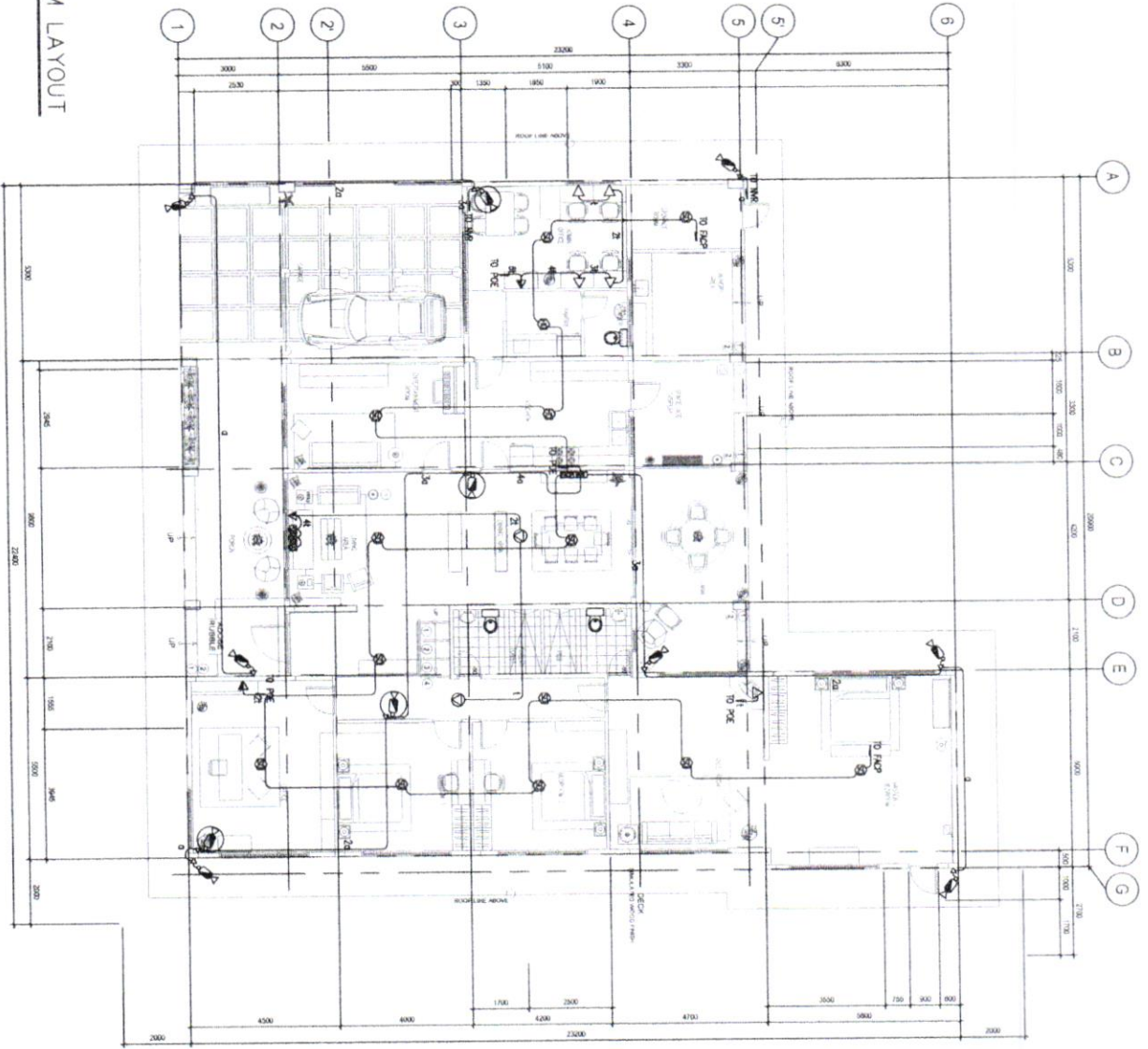
NOTE: CALCULATION BASED ON NATURAL 40%
CHIEF FILL.



NUMBER OF FILLS	WIRE	CONDENS. SIZE	WIRE	CONDENS. SIZE
1	30	5/2 (4 mm)	15	1/2 (4 mm)
2	30	5/2 (4 mm)	15	1/2 (4 mm)
3	30	5/2 (4 mm)	15	1/2 (4 mm)
4	30	5/2 (4 mm)	15	1/2 (4 mm)
5	30	5/2 (4 mm)	15	1/2 (4 mm)
6	30	5/2 (4 mm)	15	1/2 (4 mm)
7	30	5/2 (4 mm)	15	1/2 (4 mm)



1
GROUND FLOOR AUXILIARY SYSTEM LAYOUT
ECE-02 SCALE



Republic of the Philippines
Department of Engineering
Professional Engineer
Mark David P. Peral
License No. 173986
Expiry Date: January 19, 2025

PROJECT TITLE: IMPROVEMENT OF BAHAY MODERNISMO AT QUEZON CITY MEMORIAL CIRCLE (ADDITIONAL ITEMS)	SHEET CONTENT: AS SHOWN	DESIGNED BY: ENGR. KELVIN M. MARZONA ENGINEER II, ELECTRICAL ENGINEER PRG. NO. 712558 VALID DATE: JUNE 25, 2025	APPROVED BY: ENGR. FREDERICK DE GUZMAN CHIEF, PLANNING AND DESIGN DIVISION PRG. NO. 207408 VALID DATE: MARCH 18, 2025	APPROVED BY: ATTY. MARK DAVID P. PERAL CIVIL ENGINEER PRG. NO. 173986 VALID DATE: FEBRUARY 19, 2025	SHEET NO. EL-06
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