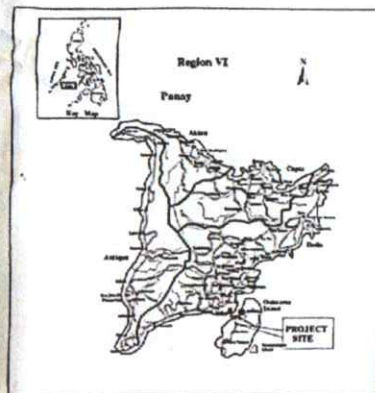


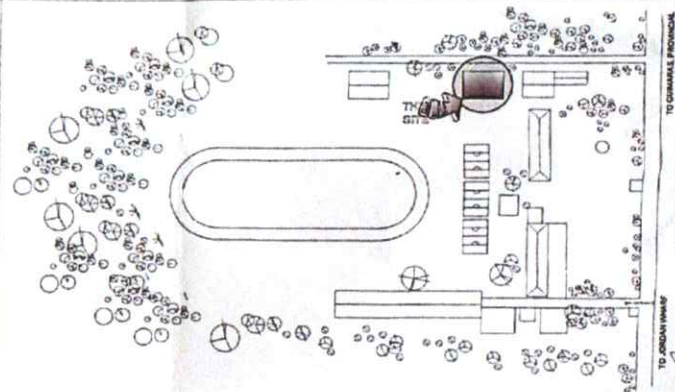


PERSPECTIVE

THIS SITE



VICINITY MAP



SITE DEVELOPMENT PLAN

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

JORDAN, GUIMARAS

ENGR. RODOLFO G. GALOTERA
ARCHITECT

LAND USE & ZONING

ENGR. RODOLFO G. GALOTERA
Principal Engineer
Building Official

LAND AND GRADE JUL 07 2025

MA
Principal Engineer
Building Official

ARCHITECTURAL JUL 07 2025

Principal Engineer
Building Official

STRUCTURAL JUL 07 2025

Principal Engineer
Building Official

ELECTRICAL JUL 07 2025

Principal Engineer
Building Official

MECHANICAL JUL 07 2025

MECHANICAL

PREPARED BY:

ENGR. VARGAS-MAXIMO
REGISTERED ELECTRICAL ENGINEER
PLACE SIGNATURE, DATE, AND
VALUITY
PRC NO.:
PTR NO.:
APDA NO.:
PLACE:
DATE:
TIN:

PROJECT TITLE:

CONSTRUCTION OF FOOD INCUBATION
CENTER - MOSQUEDA CAMPUS
(AS-BUILT PLAN)

ADDRESS

OWNER:

LILIAN DIANA B. PARREÑO

ADDRESS

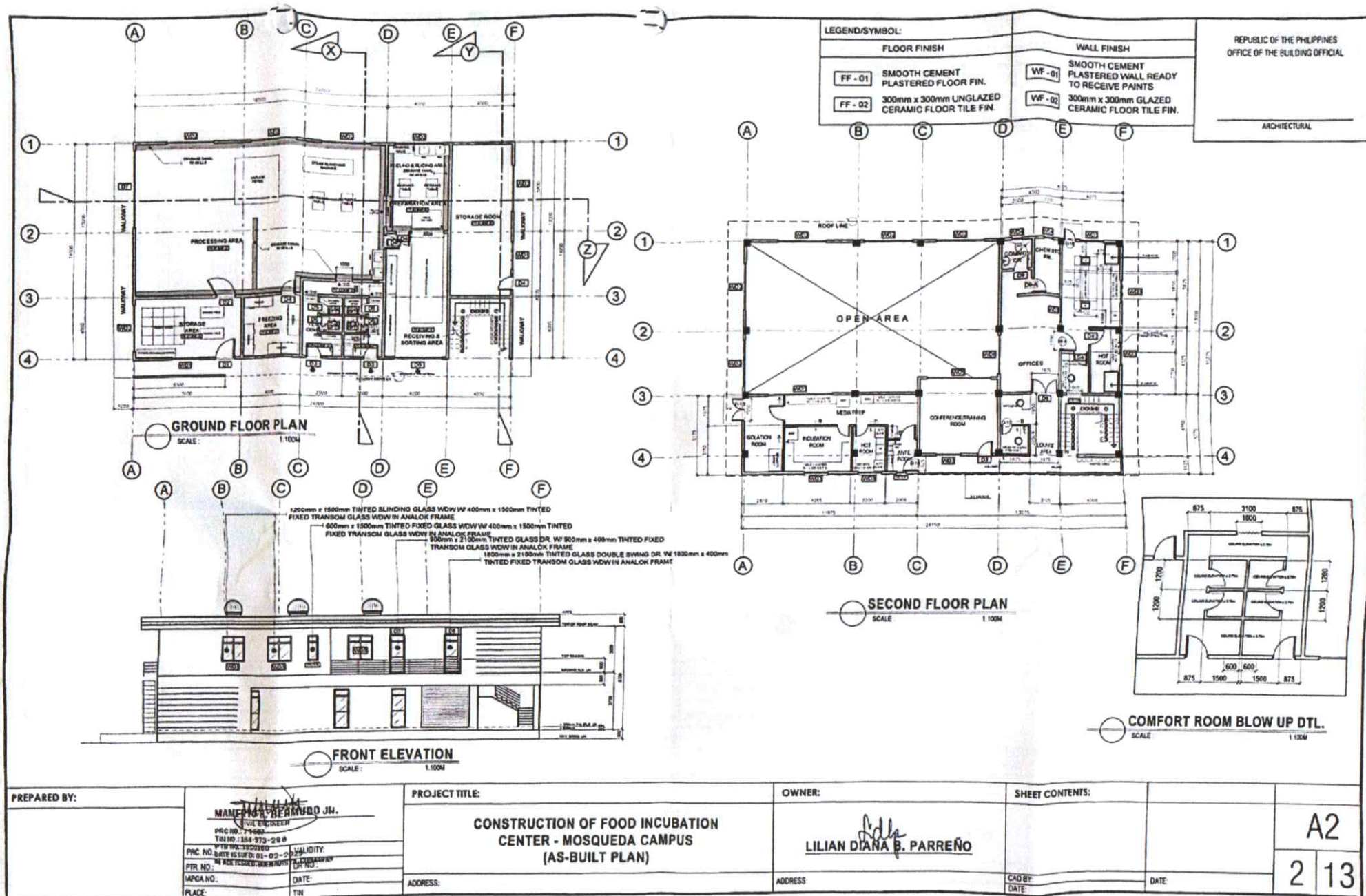
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A1

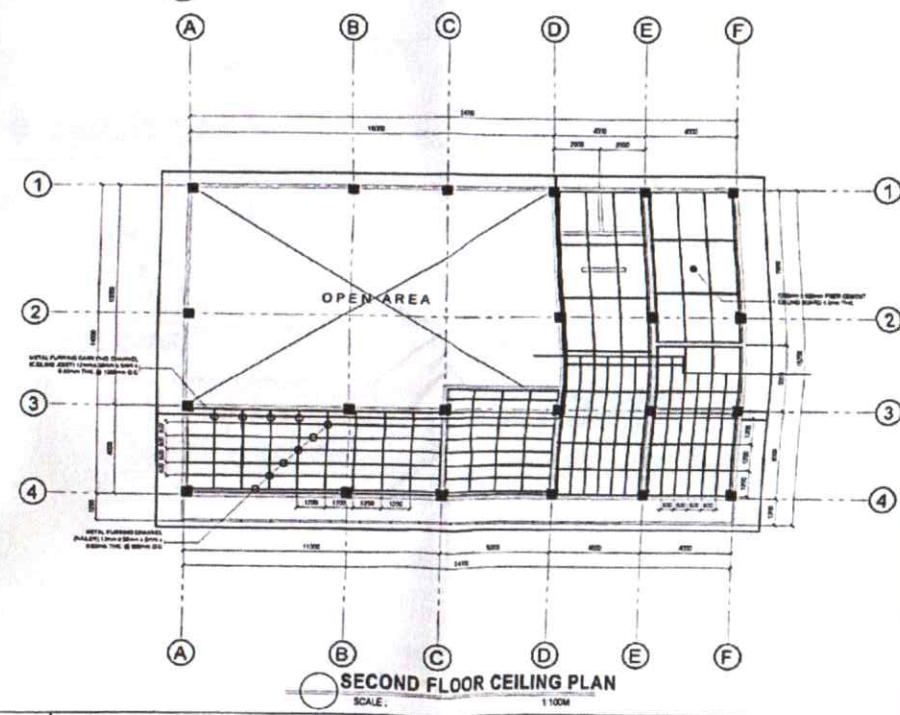
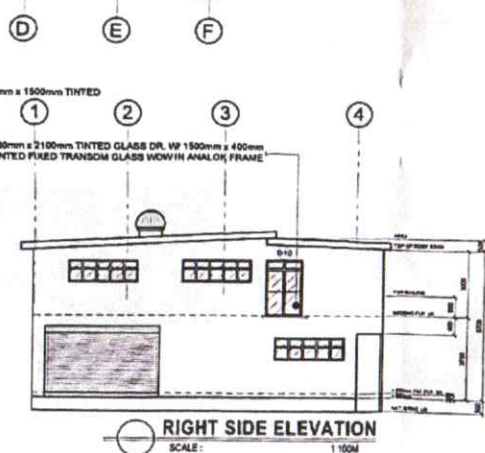
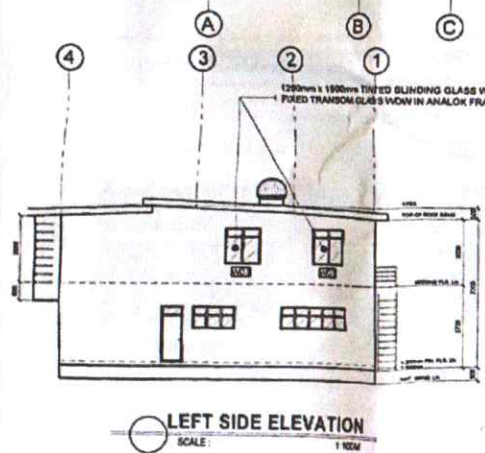
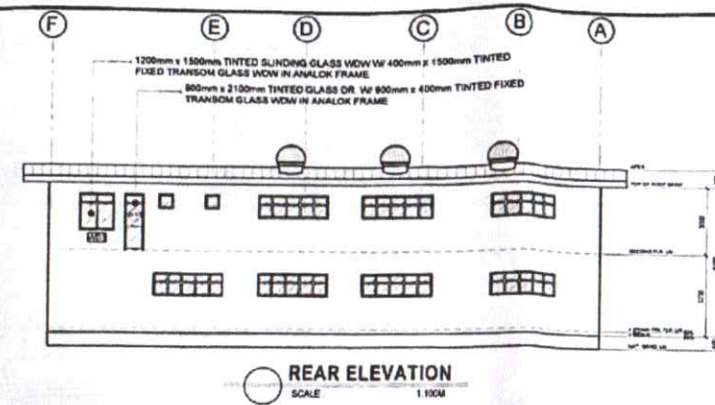
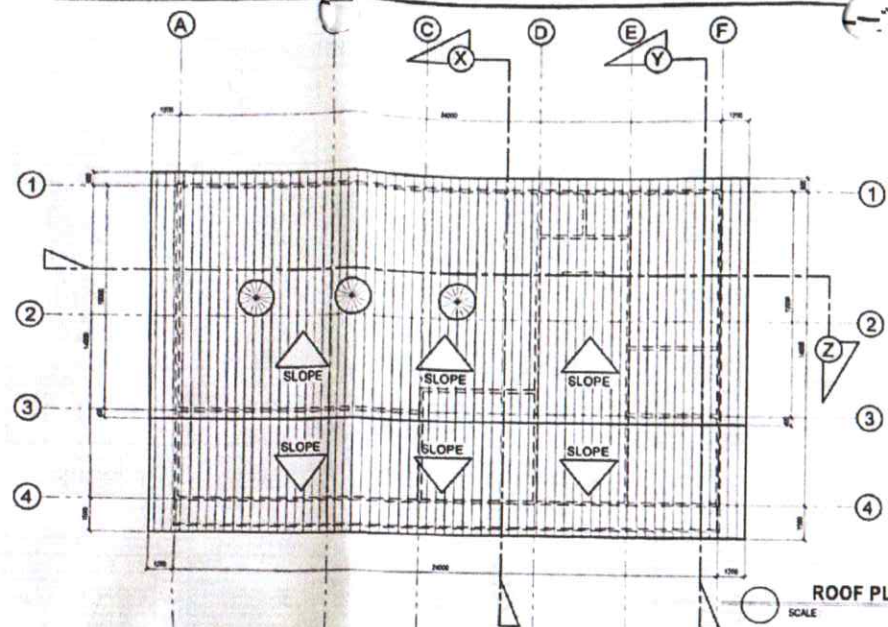
1 13

CAD BY:
DATE

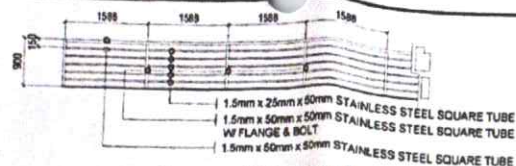
DATE



ARCHITECTURAL

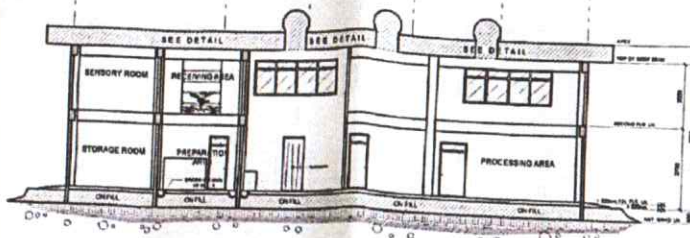


PREPARED BY: MANGATO B. BERNARDO, JR. CIVIL ENGINEER PRC NO. 14487 TIN NO. 144-875-888 PRC NO. DATE ISSUED: 01-02-2008 PTR NO. ADDRESS: BAHAY KUBANG WPAO NO. DATE: _____ PLACE: _____		PROJECT TITLE: CONSTRUCTION OF FOOD INCUBATION CENTER - MOSQUEDA CAMPUS (AS-BUILT PLAN) ADDRESS: _____		OWNER: LILIAN DIANA B. PARREÑO ADDRESS: _____		SHEET CONTENTS: _____		DATE: _____	
						A3		3 13	



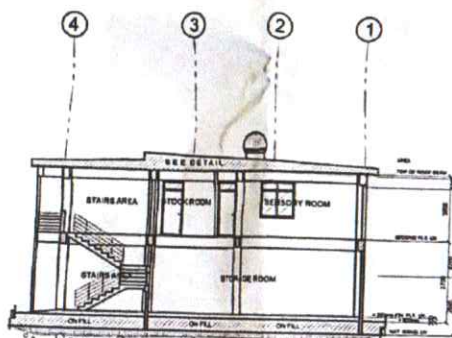
RAILING DETAILS

SCALE: NTS



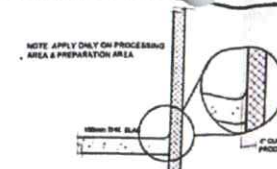
SECTION THRU Z

SCALE: NTS



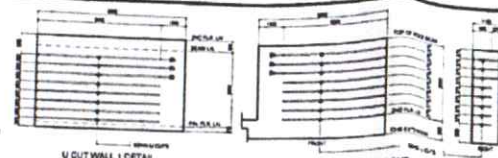
SECTION THRU Y

SCALE: NTS



CORNER WALL DETAILS

SCALE: NTS



WALL U CUT DETAILS

SCALE: NTS



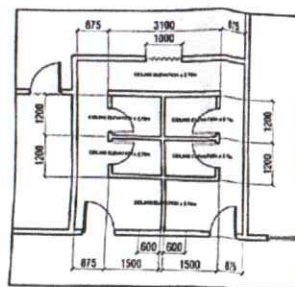
DRAINAGE CANAL DETAILS

SCALE: NTS

1.5mm x 50mm x 50mm STAINLESS STEEL SQUARE TUBE W/ FLANGE & BOLT
1.5mm x 50mm x 50mm STAINLESS STEEL SQUARE TUBE
1.5mm x 25mm x 50mm STAINLESS STEEL SQUARE TUBE

FOOTH BATH DETAILS

SCALE: NTS

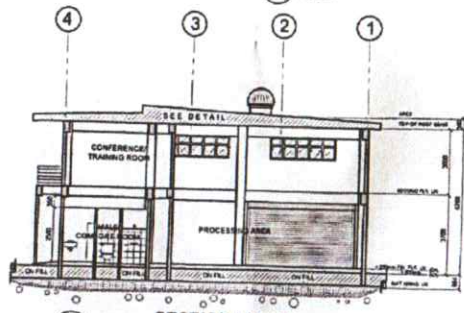


STAIR RAILING DETAILS

SCALE: NTS

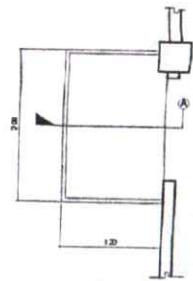
CR CEILING PLOW UP PLAN

SCALE: NTS



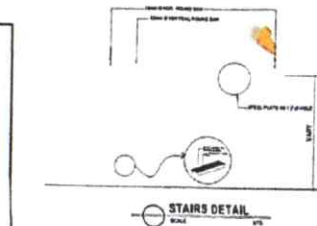
SECTION THRU X

SCALE: NTS



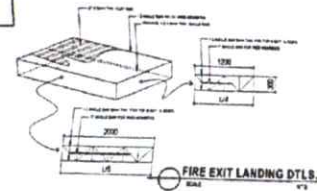
FIRE EXIT PLAN

SCALE: NTS



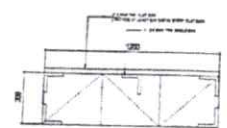
STAIRS DETAIL

SCALE: NTS



FIRE EXIT LANDING DTLS.

SCALE: NTS



SECTION THRU A-A

SCALE: NTS

PREPARED BY:

MANUEL B. BLANCO JR.

PROJ. NO. 71642

TRN NO. 118-973-218

PRC NO. 118-973-218

DATE ISSUED: 01-02-2022

PTN NO. 118-973-218

DATE: 01-02-2022

PLACE: TIR

PROJECT TITLE:

CONSTRUCTION OF FOOD INCUBATION
CENTER - MOSQUEDA CAMPUS
(AS-BUILT PLAN)

ADDRESS:

OWNER:

LILIAN DIANA B. PARREÑO

ADDRESS:

SHEET CONTENTS:

CAD BY:

DATE:

DATE:

A5

5 13

1. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DIMENSIONS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
2. SHOP DRAWINGS MUST PRESENT AND PLACE DIMENSIONS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE ETC. SHALL BE SUBMITTED FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN. CHECK ALL MECHANICAL AND ELECTRICAL CONNECTIONS FOR COUPLERS, PIPE BLESSERS, ETC., TO BE EMBEDDED IN CONCRETE.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE DURING & AFTER CURE OF THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318).

- | LOCATION | 28 DAYS STRENGTH | MAX. SIZE AGGREGATE | SLUMP |
|--|------------------|---------------------|----------------|
| ALL OTHERS, INCLUDING
SUSPENDED SLABS | 3000 PSI | 3/4 in. (19 mm) | 4 in. (100 mm) |
| COLUMNS, R.C. WALLS | 3000 PSI | 3/4 in. (19 mm) | 4 in. (100 mm) |
| BEAMS, GIRDERS | 3000 PSI | 3/4 in. (19 mm) | 4 in. (100 mm) |
| SLAB ON GRADE | 2500 PSI | 3/4 in. (19 mm) | 4 in. (100 mm) |

3. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 33 FOR DIAMETER 10 & 12 AND GRADE 60 FOR DIAMETER 16 AND LARGER BARS
4. IN GENERAL THE LATEST EDITION OF ACI-318, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR NOTED.

5. MANTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:
- | | |
|--|-------------------|
| SUSPENDED SLABS | 1 1/2 in. (38 mm) |
| SLAB ON GRADE | 1 1/2 in. (38 mm) |
| WALLS ABOVE GRADE | 1 in. (25 mm) |
| BEAM STIRRUPS AND COLUMN TIES | 1 1/2 in. (38 mm) |
| WHERE CONCRETE IS EXPOSED TO
EARTH BUT POURED AGAINST FORMS | 2 in. (50 mm) |
| WHERE CONCRETE IS DEPOSITED
DIRECTLY | |

8. SPLICES SHALL BE SECURELY WELDED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE 1 (TABLE OF LAP SPICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILL STOPS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS.
9. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP OR SPRINKLING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
10. STOPPING OF FLOW, OR PLUGS

- | | |
|------------------------------|---------|
| FOUNDER | 24 HRS. |
| SUSPENDED SLAB EXCEPT WHEN | |
| ADDITIONAL LOADS ARE IMPOSED | 8 DAYS |
| WALLS | 18 HRS. |
| BEAMS | 14 DAYS |

ALL NON-LOAD BEARING TYPE CONCRETE BLOCKS SHALL HAVE A UNIT WEIGHT NOT TO EXCEED 85 PCT FOR LOAD BEARING TYPE. TYPE CONCRETE BLOCKS A MINIMUM COMPRESSIVE STRENGTH OF 3.45 W/CM² SHALL BE DEVELOPED.

PROVIDE 1/2" VERTICAL BARS AT CORNERS, INTERSECTIONS, END OF WALLS AND EACH SIDE OF OPENINGS.

LAPTEL REBARS SHALL BE AT LEAST 8" FOLLOWS (700 W/CM) ON EACH SIDE OF WINDOW OPENINGS.

WALL REINFORCEMENTS SHALL BE AS FOLLOWS:

WALL THICKNESS	VERTICAL REINFORCEMENT
6 IN. (700 W/CM)	#12 @ 800 W/CM
8 IN. (110 W/CM)	#12 @ 800 W/CM
10 IN. (100 W/CM)	#16 @ 800 W/CM

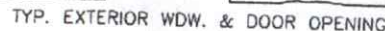
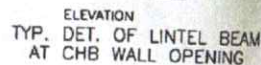
REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 45 BAR DIAMETERS WHEN SPACE IS LIMITED FROM TOPPING OF SLABS SHALL EXTEND INTO THE BLOCKS WITH A MINIMUM OF 45 BAR DIAMETERS, AND DOUBLE THE LENGTH.

ALL CELLS CONTAINING REINFORCING BARS OR INSERTS SHALL BE THOROUGHLY FILLED WITH FINEST CRUSHED SILEX (REFER TO SPECIFICATIONS).

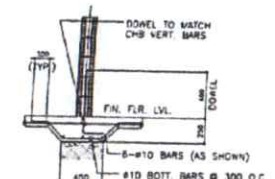
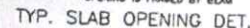
1. 50% BEARING CAPACITY 100 KPA
2. FILL CAPACITY 85 TONS
3. NOTION OF FOOTINGS SHALL BE GIVEN DURING
ACTUAL DEPTH TO BE APPLIED BY THE ENGINEER
4. SOIL BEARING CAPACITY SHALL BE INCREASED BY 33%
5. ALL FOUNDATION WITH REST ON WIND LOAD
6. ALL COLUMN FOOTINGS SHALL BE 10 CM THICK
WELL CONCRETE GRAVEL BASE COURSE
7. THEWELL SHALL BE PLACED IN 300MM LAYERS AND EACH
LAYER SHALL BE COVERED BY 200MM GRAVEL SOIL DENSITY
8. WHERE 1000/FOOT MATERIAL IS ENCOUNTERED AT DEPTH OF
1.50 M AND EXCEEDS 1.50 M LAYER UP TO 100MM OF
THE FOOTING WITHIN THE 1.50M LAYER AND MORE
OF THE FOUNDATION SHALL BE COVERED BY 200MM
GRAVEL AND EXCEEDS 200 MATERIAL ON ALL GUTS WITH
SELECTED SANDGRAVEL. THEWELL MATERIALS COMPACTED AS
SPECIES OF THE ENGINEER



SCALE: 1:100



PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING
SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION



MANEVAR RESNOD, JR.

CIVIL ENGINEER

TEL NO.: 188-973-268

VALIDITY:

NO FACE IS SAID: BUREAU/STAFF CHURCHMAN ON TV

NO.:	DATE:
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	104
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CONSTRUCTION OF FOOD INCUBATION
CENTER - MOSQUEDA CAMPUS
(AS-BUILT PLAN)

LILIAN DIANA B. PARREÑO

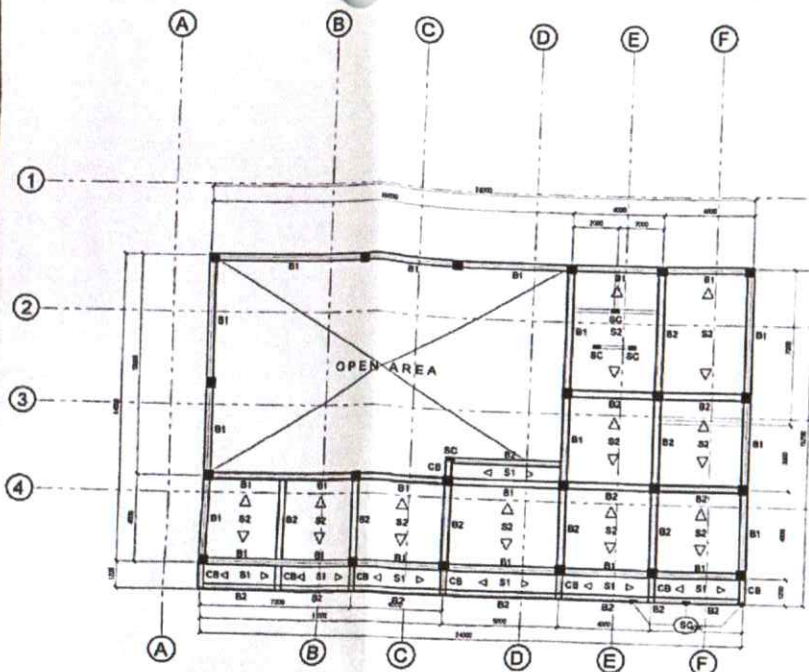
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DATE:	

DATE

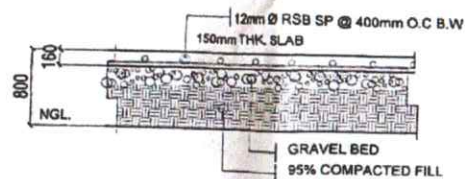
S1

6	13
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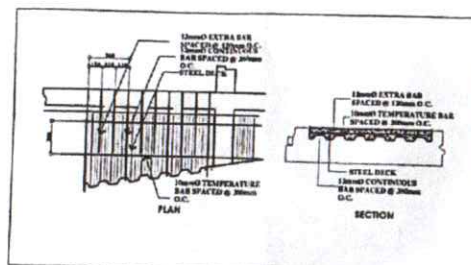
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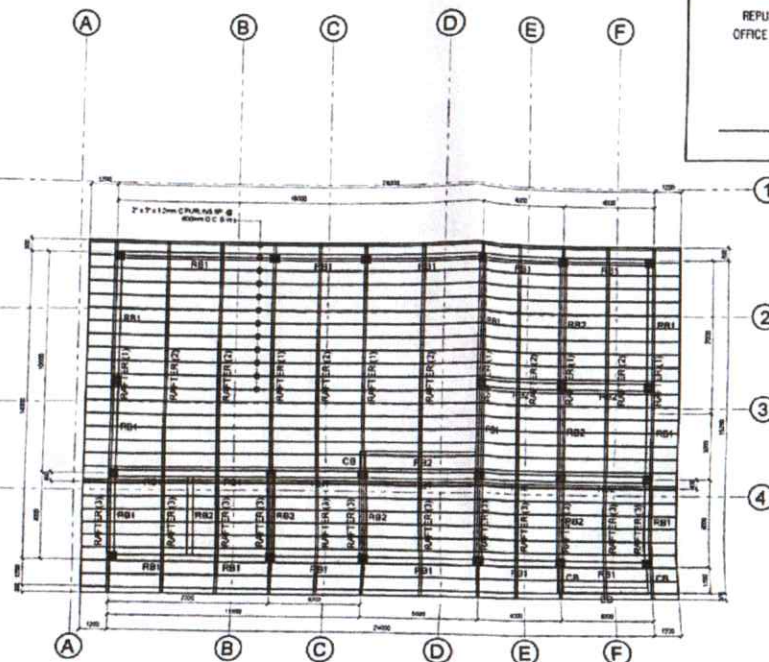
SECOND FLOOR FRAMING PLAN
SCALE: 1:100M



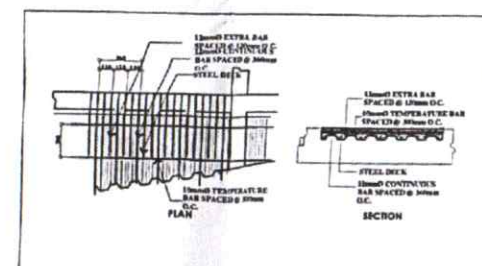
SLAB ON FILL DETAIL
SCALE: NTS



STEEL DECK SLAB DETAIL (S1)
SCALE: NTS



ROOF FRAMING PLAN
SCALE: 1:100M



STEEL DECK SLAB DETAIL (S2)
SCALE: NTS

PREPARED BY:

MARICEL S. DE GUZMAN, JR.
CIVIL ENGINEER
PRC NO. 1487
CEN. 100-200-000
PRC NO. 10-1750169
DATE: 08-11-2022
PTR NO. 10-1750169-02-02
UPOA NO.:
PLACE: FIM

PROJECT TITLE:

**CONSTRUCTION OF FOOD INCUBATION
CENTER - MOSQUEDA CAMPUS
(AS-BUILT PLAN)**

ADDRESS:

OWNER:

LILIAN DIANA B. PARREÑO

ADDRESS:

SHEET CONTENTS:

CAD BY:
DATE:

DATE:

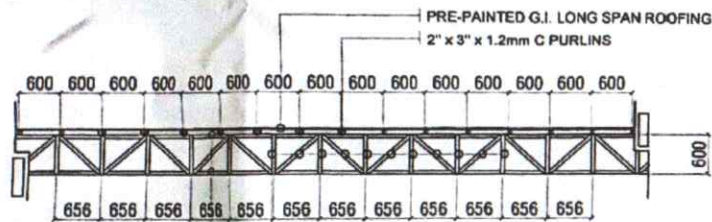
S2

7 13

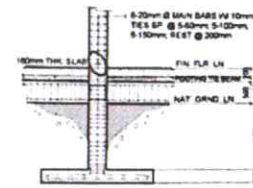
MARK	L(mm)	W(mm)	MAIN BARS	SPACING OF TIES
G1	400	400	8-20mm @	5-10mm; 5-100mm; 5-150mm; REST @ 200mm
BC	250	100	2-10mm @	C BAR SP @ 200mm

MARK	LENGTH (L) (mm)	WIDTH (W) (mm)	DEPTH (D) (mm)	THICKNESS (T) (mm)	REINFORCEMENT		REMARKS
					BAR X	BAR Y	
F1	2500	2500	1500	300	8-20mm Ø	8-20mm Ø	ISOLATED FOOTING
F2	3400	3400	1500	400	12-20mm Ø	12-20mm Ø	ISOLATED FOOTING

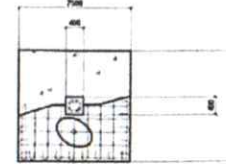
MARK	BEAM CROSS SECTION		BEAM LONGITUDINAL SECTION	SPACING OF STIRRUPS
	SECTION AT SUPPORT	SECTION AT MID SPAN		
B1				5-50mm, 5-100mm, 5-150mm, REST @ 200mm
B2				5-50mm, 5-100mm, 5-150mm, REST @ 200mm
CB				5-50mm, 5-100mm, 5-150mm, REST @ 200mm
FTB				5-50mm, 5-100mm, 5-150mm, REST @ 200mm
LB1				5-50mm, 5-100mm, 5-150mm, REST @ 200mm
LB2				C - BAR SP. @ 200mm



TYPICAL RAFTER DETAILS



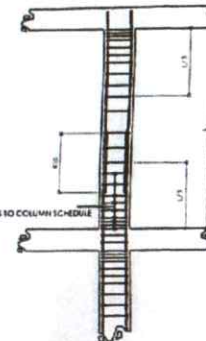
SECTION



PLAN
 (8-20mm Ø MATT BAR

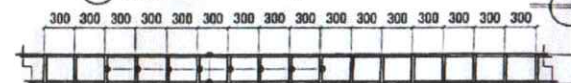
COLUMN FOOTING DETAILS (C2F2)

SCALE:



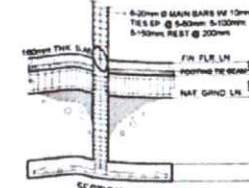
TYPICAL COLUMN DETAILS

SCALE: _____

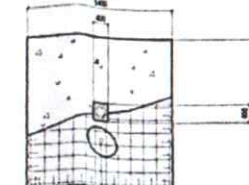


STEEL FRAME DETAILS

SCALE: _____ NTS: _____



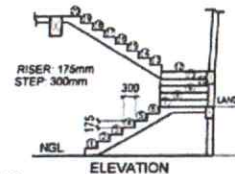
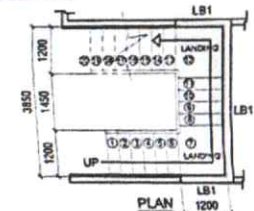
SECTION



PLAN (12-20mm @ MATT BAR)

COLUMN FOOTING DETAILS (C1F1)

SCALE NT



STAIRS DETAILS

SCALE: _____ N

1/8 x 1 1/2" x 1 1/2" ANGLE BAR VERT. MEMBERS

1/8 x 1 1/2" x 1 1/2" ANGLE BAR TOP & BOT.

MANPOWER RECORD ID	
CIVIL ENGINEER	
PRC NO. 79-087	
TITLE: CIVIL ENGINEER	
PIC NO. 87TH REGT - 1602	VALIDITY:
CIVIL ENGINEER - 02-00	
PTR NO. ACS ISSUED BUREAU OF CHINA	
JAPCA NO.	DATE:
PLACE:	TIN:

CONSTRUCTION OF FOOD INCUBATION
CENTER - MOSQUEDA CAMPUS
(AS-BUILT PLAN)

LILIAN DIANA B. PARREÑO

CAD BY		DATE
DATE		

DATE _____

S3

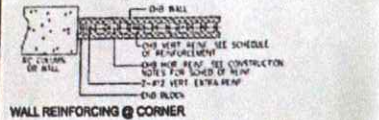
8	13
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STRUCTURAL

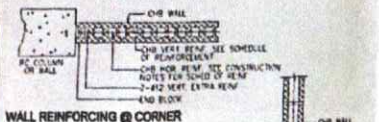
NOTE:
THE TOP SLAB REINFORCING
PLACEMENT ON FLOOR SLAB
SHOULD BE THE SAME AS
ON THE TOP OF THE WALL
UNTIL THE SLAB ENDING CLASH

SLAB ANCHORAGE

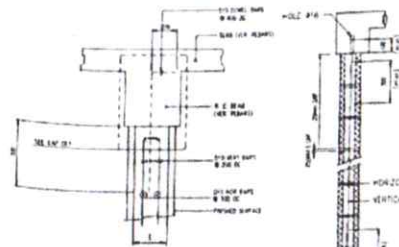
TOP ANCHORAGE DETAIL OF INTERIOR R.C. WALL



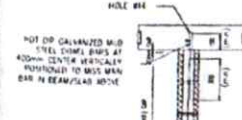
WALL REINFORCING @ CORNER



WALL REINFORCING @ CORNER



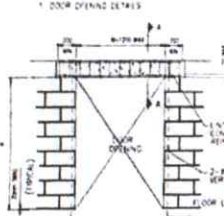
BEAM ANCHORAGE



CHB WALL REINFORCEMENT

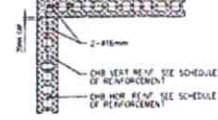
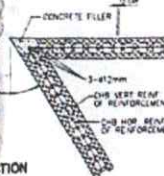
SUPPORTED @ FLOOR LEVEL O

CHB WALL OPENING DETAILS

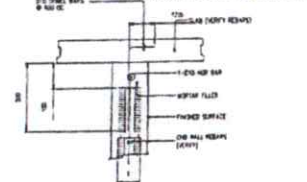


SUPPORTED @ FLOOR AND CEILING

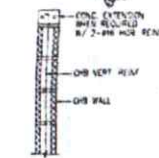
SECTION A-A



WALL REINFORCING @ CORNER



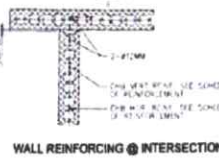
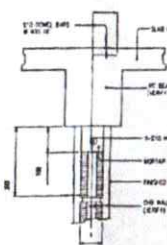
WALL REINFORCING @ INTERSECTION



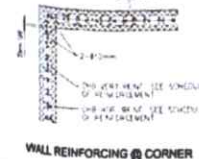
SECTION B-B

WALL REINFORCING @ INTERSECTION

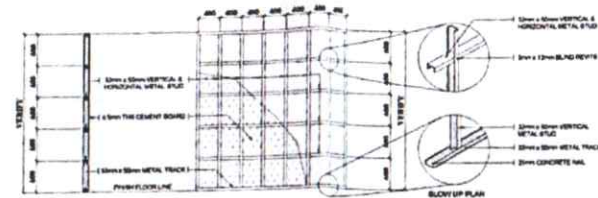
SLAB ANCHORAGE
TOP ANCHORAGE DETAIL OF EXTERIOR CHB WALL



WALL REINFORCING @ INTERSECTION

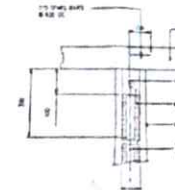


WALL REINFORCING @ CORNER



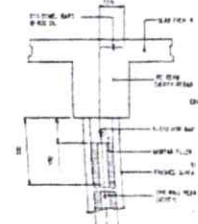
DRYWALL DETAILS

SCALE: NTS

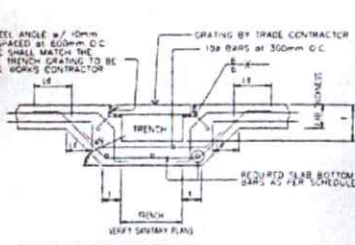


SLAB ANCHORAGE

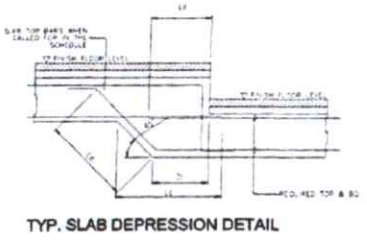
TOP ANCHORAGE DETAIL OF INTERIOR CHB WALL



BEAM ANCHORAGE



TYP TRENCH DETAIL



TYP. SLAB DEPRESSION DETAIL

PREPARED BY:

MANUEL P. REYNOLDO, JR.
CIVIL ENGINEER
PRO REG. NO. 373-288
PTR NO. 1-100000
PRC NO. 15583-01-02-20-20
IAPDA NO. 1
PLACE: _____

PROJECT TITLE:

CONSTRUCTION OF FOOD INCUBATION
CENTER - MOSQUEDA CAMPUS
(AS-BUILT PLAN)

ADDRESS:

OWNER:

LILIAN DIANA B. PARREÑO

ADDRESS:

SHEET CONTENTS:

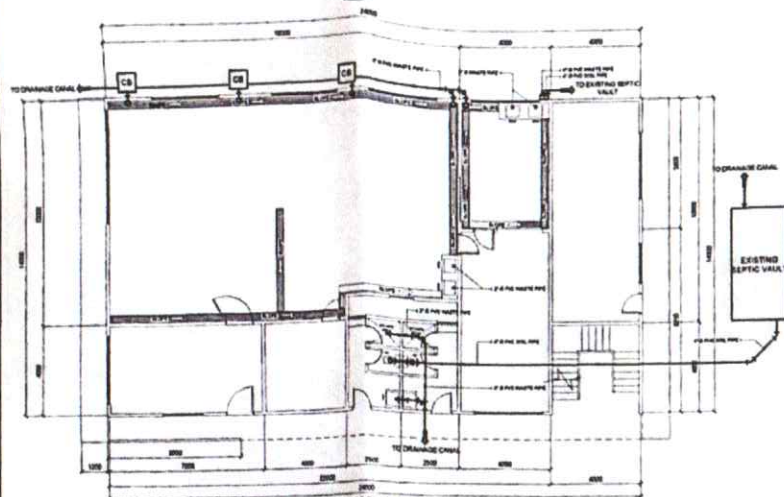
CAD BY
DATE

DATE

S4

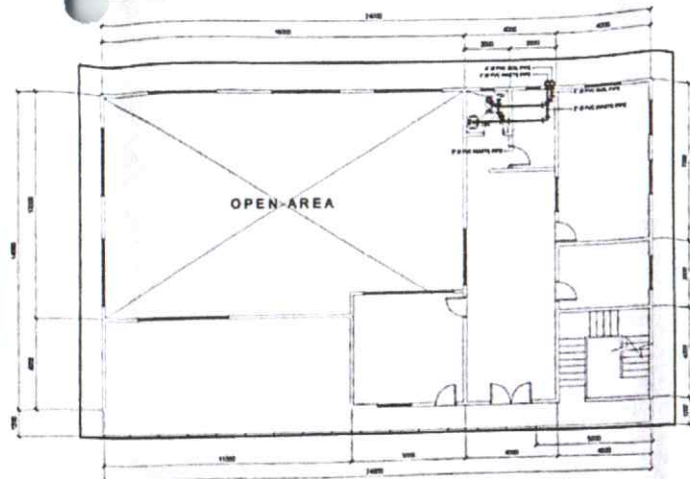
9 13

PLUMBING



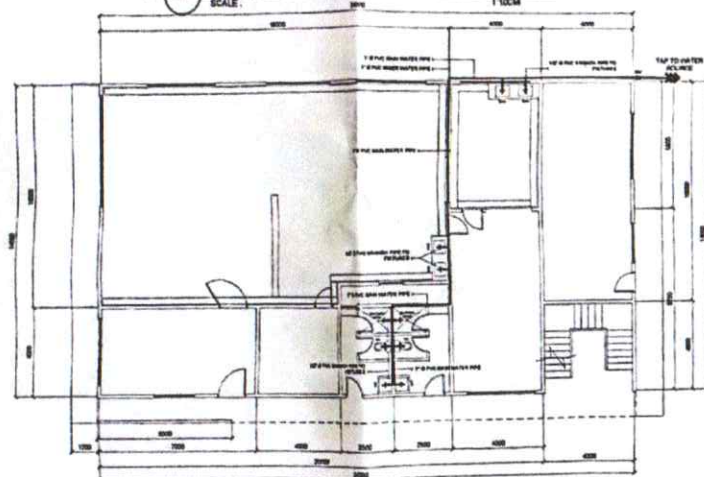
GROUND FLOOR WASTE LINE LAY-OUT

SCALE: 1:100M



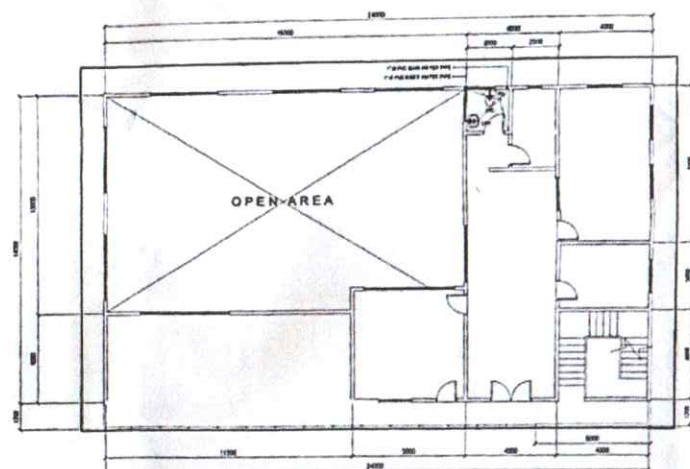
SECOND FLOOR WASTE LINE LAY-OUT

SCALE: 1:100M



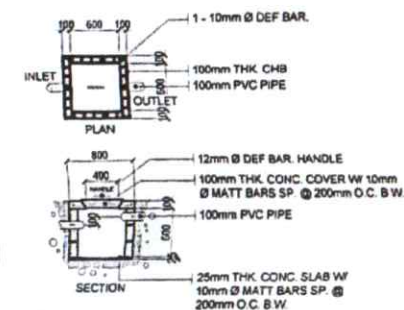
GROUND FLOOR WATER LINE LAY-OUT

SCALE: 1:100M



SECOND FLOOR WATER LINE LAY-OUT

SCALE: 1:100M



CATCH BASIN DETAILS

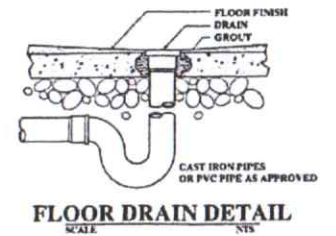
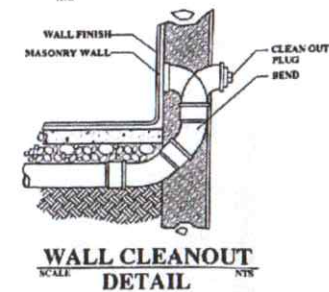
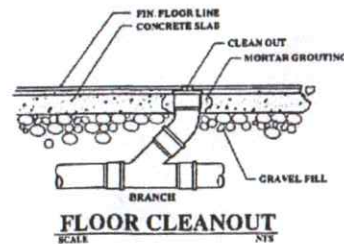
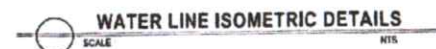
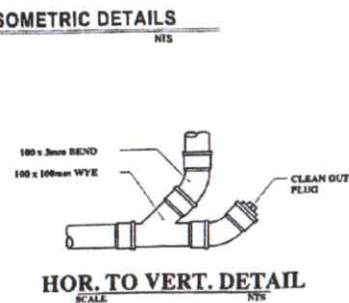
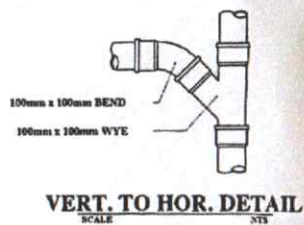
SCALE: NTS

PREPARED BY:	ERMAN C. GANGE, Ph.D. REGISTERED MASTER PLUMBER PRC NO.: 02187 VALIDITY: 01/01/2014 PTR NO.: DATE: PLACE:	PROJECT TITLE:	OWNER:	SHEET CONTENTS:	
		CONSTRUCTION OF FOOD INCUBATION CENTER - MOSQUEDA CAMPUS (AS-BUILT PLAN)	LILIAN DIANA B. PARREÑO		P1
		ADDRESS:	ADDRESS:	CAD BY: DATE:	1013

REPUBLIC OF THE PHILIPPINES
OFFICE OF THE BUILDING OFFICIAL

- 10 ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE TO THE SPECIFICATIONS OF THE PLUMBING PLUMBING CODE, THE NATIONAL PLUMBING CODE AND THE RULES AND REGULATIONS OF THE CITY OF LOS ANGELES.
- 11 A CORROSION RESISTANT JOINTS WITH OTHER RELATED DEVICES AND SPECIFICATIONS THE ENGINEER AND/OR THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY OR VIOLATION.
- 12 ALL PIPES SHALL BE INSTALLED AS SPECIFIED AND ALL NECESSARY REQUIREMENTS FOR PROPER EXTENSION OF THE PLUMBING WORK SHALL BE THE RESPONSIBILITY OF THE ENGINEER AND/OR THE ARCHITECT.
- 13 THE PROPOSED INSTALLATIONS SHALL CONFORM TO THE ACTUAL LOCATION DATA AND ALL NECESSARY REVISIONS OF ALL EXISTING PIPES AND STRUCTURES AS APPROVED BY THE CONTRACTOR.
- 14 ALL SUPPORTS OF PLUMBING, DRAINAGE SHALL BE WITHIN ONE PERCENT OF THE ACTUAL PRESENT EXISTING DIMENSIONS UNLESS OTHERWISE SPECIFIED.
- 15 A DRAIN SHIP SHALL BE INSTALLED SHALL BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 16 ALL EXISTING PIPES OR GROUP OF PIPES SHALL BE RELOCATED TO THE SAME OR NEARBY PART OF EXISTING VERTICAL EXTENSION.
- 17 ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO 150 PSI FOR A PERIOD OF TWO HOURS, WHEN BLASTED OR COVERED SOLIDLY. THE TEST PIPES DIRECTLY IN CONTACT WITH THE SOIL SHALL BE COVERED WITH TWO COATS OF BENTONITE ASBESTOS AND WRAPPED WITH RUBBER COVERED IN HEATED ASBESTOS.
- 18 THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN SITE AND COORDINATE THE WORK WITH THE SEWER AND STORM DRAINAGE EXISTING LOCAL PIPES AND WATER MAINS SERVICE CONCEALING TAPPING.
- 19 ALL PIPE SHALL HAVE OTHER DIMENSIONS ARE IN MILLIMETER.

SEWAGE LINE
VENT LINE
COLD WATER SUPPLY LINE
HOT WATER SUPPLY LINE
STORM DRAIN LINE
WC WATER CLOSET
LAV LAVATORY
BT BATH TUB
KSK KITCHEN SINK
EWI ELECTRIC WATER HEATER
FCO FLOOR CLEANOUT
GCO GROUND CLEANOUT
FD FLOOR DRAIN
SS SOIL STACK
VS VENT STACK
SP SOIL PIPE
VP VENT PIPE
SV SEPTIC VALVE
VL VENT LINE
VAC VENT ABOVE CEILING
VTR VENT THRU ROOF
FD FLOOR DRAIN
DD DECK DRAIN
GD GUTTER DRAIN
AC AIR CHAMBER
GV GATE VALVE
WM WATER METER
CV CHECK VALVE
FLY FLOAT VALVE
CB CATCH BASIN
DJB DRAINAGE JUNCTION BOX
WM WATER METER
URI URINAL
WS WASTE STOP
DS DOWN SPOUT



PREPARED BY:		PROJECT TITLE:		OWNER:		SHEET CONTENTS:					
 ERMANG GANGE, Ph.D. RESEARCH MANAGER PRC NO. PRC No. 00000 VAL. 000000000000 PTR NO. PTR No. 00000 VAL. 000000000000 MAPA NO. DATE: 00/00/00 PLACE: THE		CONSTRUCTION OF FOOD INCUBATION CENTER - MOSQUEDA CAMPUS (AS-BUILT PLAN)		 LILIAN DIANA B. PARREÑO						P2	
		ADDRESS		ADDRESS		CAB BY DATE		DATE		11 13	

PLUMBING

2ND FLOOR (PP2)

CAT NO.	TYPES OF LOAD		SWITCHES			AMPERE LOAD			VOLT AMP LOAD		VOLTS	PHASE	PROTECTION		SIZE OF WIRE	SIZE OF GROUND WIRE	SIZE OF CONDUIT (PVC)		
	LO	CO	Others	B1	B2	B3	Sum	AB	BC	CA			ABC	AT				IPOL	AF
1	12	3-EL	3	1	1		1.76				367	220	SINGLE	15	2	10	2.0 mm sq THHN	1.0 mm sq THHN	20 mm Ø
2	13	3-EL	3	1	1		1.80				363	220	SINGLE	15	2	10	2.0 mm sq THHN	1.0 mm sq THHN	20 mm Ø
3	8	3-EL	1	1	2		1.90				232	220	SINGLE	15	2	10	2.0 mm sq THHN	1.0 mm sq THHN	20 mm Ø
4	8	3-EL	1	1	2			5.16			1465	220	SINGLE	20	2	10	2.0 mm sq THHN	1.0 mm sq THHN	20 mm Ø
5	8							5.16			1440	220	SINGLE	20	2	10	2.0 mm sq THHN	1.0 mm sq THHN	20 mm Ø
6	7								5.77		1260	220	SINGLE	30	2	10	2.0 mm sq THHN	1.0 mm sq THHN	20 mm Ø
7	1-ACU						0.76				1462	220	SINGLE	30	3	15	2.0 mm sq THHN	1.0 mm sq THHN	20 mm Ø
8	1-ACU						0.76				1462	220	SINGLE	30	2	15	2.0 mm sq THHN	1.0 mm sq THHN	20 mm Ø
9	1-ACU						0.11				2238	220	SINGLE	30	2	15	2.0 mm sq THHN	1.0 mm sq THHN	20 mm Ø
10	SPARE						0.82				1500	220	SINGLE						
11	SPARE						0.82				1500	220	SINGLE						
12	SPARE						0.55				1000	220	SINGLE						
TOTAL	33	23	13	4	3	2	29.54	6.07			14344	220	THREE	70	3	15	3-20mm THHN	1-14mm THHN	40 mm Ø

SERVICE ENTRANCE COMPUTATION
S₁ = 20.94 A
S₂ = 38.43 A
S₃ = 21.50 A
S₄ = 21.50 (1.732) = 37.24 A

SIZE OF WIRE
I₁ = 37.24 + (0.82) (0.25) = 38.95 A
SIZE OF BREAKER
I₁ = 37.24 + (0.82) (1.5) = 47.47 A
USE 5-22 mm THHN Cu Wire + 1.0 mm sq THHN Cu Wire in 40mm Ø PVC CONDUIT
THAT CB, 3P, 220V, 15 kVAC

SCHEDULE OF LOADS: GROUND FLOOR (MDP)

CAT NO	TYPES OF LOAD			SWITCHES						AMPERE LOAD			VOLT AMP LOAD		VOLTS	PHASE	PROTECTION	SIZE OF WIRE	SIZE OF GROUND WIRE	SIZE OF CONDUIT
	LO	CO	Other	B1	B2	B3	Sum	AB	BC	CA	ABC	AB	BC	CA						
PP1	37	20	23	5	2	4	11.00	4227	220	THREE	100	3	100	3-20mm THHN	1-10mm THHN	80 mm Ø				
PP2	53	23	13	4	3	2	20.34	14344	220	THREE	70	3	15	3-22mm THHN	1-14mm THHN	40 mm Ø				
PP3	23	23	13	4	3	2	20.34	14344	220	THREE	70	3	15	3-22mm THHN	1-14mm THHN	40 mm Ø				
TOTAL	13	4	3	2	2	2	11.00	14344	220	THREE	250	3	100	3-10mm THHN	1-10mm THHN	60 mm Ø				

SERVICE ENTRANCE COMPUTATION
S₁ = 81.82 A
S₂ = 79.00 A
S₃ = 80.85 A
S₄ = 11.82 (1.732) = 141.37 A

SIZE OF WIRE
I₁ = 141.37 + (1.732) (0.25) = 143.32 A
SIZE OF BREAKER
I₁ = 141.37 + (1.732) (1.5) = 159.10 A
USE 3-125 mm THHN Cu Wire + 1.0 mm sq THHN Cu Wire in 40mm Ø CONDUIT PIPE
THAT CB, 3P, 220V, 15 kVAC

CAT NO.	LOAD DESCRIPTION	VOLTS	AMPERE	WATTS	VA	PHASE	PROTECTION	SIZE OF WIRE	SIZE OF GROUND WIRE	SIZE OF CONDUIT
LO	CO	Other	B1	B2	B3	Sum	AB	BC	CA	ABC
1	10	Convenience Outlet	220	10	2200	10	10	10	10	10
2	10	Convenience Outlet	220	10	2200	10	10	10	10	10
3	10	Convenience Outlet	220	10	2200	10	10	10	10	10
4	10	Convenience Outlet	220	10	2200	10	10	10	10	10
5	10	Convenience Outlet	220	10	2200	10	10	10	10	10
6	10	Convenience Outlet	220	10	2200	10	10	10	10	10
7	10	Convenience Outlet	220	10	2200	10	10	10	10	10
8	10	Convenience Outlet	220	10	2200	10	10	10	10	10
9	10	Convenience Outlet	220	10	2200	10	10	10	10	10
10	10	Convenience Outlet	220	10	2200	10	10	10	10	10
11	10	Convenience Outlet	220	10	2200	10	10	10	10	10
12	10	Convenience Outlet	220	10	2200	10	10	10	10	10
13	10	Convenience Outlet	220	10	2200	10	10	10	10	10
14	10	Convenience Outlet	220	10	2200	10	10	10	10	10
15	10	Convenience Outlet	220	10	2200	10	10	10	10	10
16	10	Convenience Outlet	220	10	2200	10	10	10	10	10
17	10	Convenience Outlet	220	10	2200	10	10	10	10	10
18	10	Convenience Outlet	220	10	2200	10	10	10	10	10
19	10	Convenience Outlet	220	10	2200	10	10	10	10	10
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23	10	Convenience Outlet	220	10	2200	10	10	10	10	10
24	10	Convenience Outlet	220	10	2200	10	10	10	10	10
25	10	Convenience Outlet	220	10	2200	10	10	10	10	10
26	10	Convenience Outlet	220	10	2200	10	10	10	10	10
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63	10	Convenience Outlet	220	10	2200	10	10	10	10	10
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70	10	Convenience Outlet	220	10	2200	10	10	10	10	10
71	10	Convenience Outlet	220	10	2200	10	10	10	10	10
72	10	Convenience Outlet	220	10	2200	10	10	10	10	10
73	10	Convenience Outlet	220	10	2200	10	10	10	10	10
74	10	Convenience Outlet	220	10	2200	10	10	10	10	10
75	10	Convenience Outlet	220	10	2200	10	10	10	10	10
76	10	Convenience Outlet	220	10	2200	10	10	10	10	10
77	10	Convenience Outlet	220	10	2200	10	10	10	10	10
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79	10	Convenience Outlet	220	10	2200	10	10	10	10	10
80	10	Convenience Outlet	220	10	2200	10	10	10	10	10
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91	10	Convenience Outlet	220	10	2200	10	10	10	10	10
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93	10	Convenience Outlet	220	10	2200	10	10	10	10	10
94	10	Convenience Outlet	220	10	2200	10	10	10	10	10
95	10	Convenience Outlet	220	10	2200	10	10	10	10	10
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97	10	Convenience Outlet	220	10	2200	10	10	10	10	10
98	10	Convenience Outlet	220	10	2200	10	10	10	10	10
99	10	Convenience Outlet	220	10	2200	10	10	10	10	10
100	10	Convenience Outlet	220	10	2200	10	10	10	10	10

Service Entrance Computation
S₁ = 100.00 A
S₂ = 100.00 A
S₃ = 100.00 A
S

SCHEDULE OF LOADS: GROUND FLOOR (MDP)

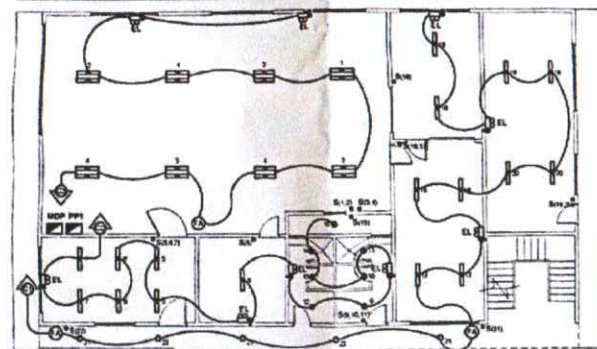
CAY NO	TYPES OF LOAD		SWITCH		AMPERE LOAD					VOLT/AMP LOAD		VOLTS	PHASE	PROTECTION		SIZE OF WIRE	SIZE OF GROUND WIRE	SIZE OF CONDUIT		
	1	2	3	4	5	6	7	8	9	10	11			12	13	14	15	16	17	
1	15	C.D.	Others	81	62	83	38	AB	BC	CA	ABC	353	220	SINGLE	20	2	10	3.0-Square THHN	1.0-Square THHN	20 mm Ø
2	16	AEL	2	3								211	220	SINGLE	20	2	10	3.0-Square THHN	1.0-Square THHN	20 mm Ø
3	9	1FA 2-EL		3								147	224	SINGLE	20	2	10	3.0-Square THHN	1.0-Square THHN	20 mm Ø
4	8											1280	220	SINGLE	20	2	10	3.0-Square THHN	1.0-Square THHN	20 mm Ø
5	7											1280	220	SINGLE	20	2	10	3.0-Square THHN	1.0-Square THHN	20 mm Ø
6	7											1280	220	SINGLE	20	2	10	3.0-Square THHN	1.0-Square THHN	20 mm Ø
7	1-ACU											3730	220	SINGLE	30	2	18	3.0-Square THHN	1.0-Square THHN	20 mm Ø
8	1-FREEZER											700	220	SINGLE	20	2	10	3.0-Square THHN	1.0-Square THHN	20 mm Ø
9	1-FREEZER											700	220	SINGLE	20	2	10	3.0-Square THHN	1.0-Square THHN	20 mm Ø
10	1-FREEZER											700	220	SINGLE	20	2	10	3.0-Square THHN	1.0-Square THHN	20 mm Ø
11	1-ACU											3730	220	SINGLE	30	2	18	3.0-Square THHN	1.0-Square THHN	20 mm Ø
12	1-SP											3600	220	SINGLE	40	2	18	3.0-Square THHN	1.0-Square THHN	20 mm Ø
13	1-SP											8000	220	SINGLE	40	2	18	3.0-Square THHN	1.0-Square THHN	20 mm Ø
14	1-VP											7000	220	SINGLE	40	2	18	3.0-Square THHN	1.0-Square THHN	20 mm Ø
15	1-SP											6000	220	SINGLE	40	2	18	3.0-Square THHN	1.0-Square THHN	20 mm Ø
16	1-SP											6000	220	SINGLE	40	2	18	3.0-Square THHN	1.0-Square THHN	20 mm Ø
17	1-SP											8000	220	SINGLE	40	2	18	3.0-Square THHN	1.0-Square THHN	20 mm Ø
TOTAL	37	20	23	5	2	4	4	31	38	38	11	42,227	220	THREE	100	3	100	3.0-Square THHN	1.0-Square THHN	80 mm Ø

SERVICE ENTRANCE CALCULATION
 $I_s = 81.08 \text{ A}$
 $I_s = 58.91 \text{ A}$
 $I_s = 58.19 \text{ A}$
 $I_s = 61.08 (1.732) = 105.78 \text{ A}$

SIZE OF WIRE:
 $I_s = 105.78 (1.732) = 183.75 \text{ A}$
 $I_s = 105.78 (1.732) = 183.75 \text{ A}$
 $I_s = 105.78 (1.732) = 183.75 \text{ A}$
 $I_s = 105.78 (1.732) = 183.75 \text{ A}$

LEGEND & SYMBOL

⊕	SERVICE ENTRANCE	⊕	1 GANG CONDUIT OUTLET	⊕	1 GANG SWITCH
⊕	METER	⊕	ACU OUTLET	⊕	2 GANG SWITCH
⊕	PANEL BOARD	⊕	DOUBLE FLUORESCENT	⊕	3 GANG SWITCH
⊕	CIRCUIT BREAKER	⊕	EMERGENCY LIGHT	⊕	GROUND LINE
⊕	CIRCUIT HOMERUN	⊕	PURE ALARM	⊕	STEAM BLANCH
⊕	CIRCUIT LINE	⊕	AIR CONDITIONING UNIT	⊕	SPECIAL PURPOSE OUTLET
⊕	CIRCUIT LINE (C.O.)	⊕	VACUUM FRYER	⊕	VACUUM FRYER
⊕	IF COMPLAINT: PROCEEDING TYPE IN PRODUCTION UNITS	⊕	SMOKE DETECTOR	⊕	SMOKE DETECTOR



LIGHTING LAYOUT
 SCALE: 1:100M

DESIGN ANALYSIS: GROUND FLOOR (PB1)

OUT 1 - LIGHTING LOAD
 (LED LIGHT TYPE ALARM FLOOR RECENT LAMP
 & EMERGENCY LIGHT)
 $I_s = (5 \times 9) + (2 \times 50) + (10 \times 16) + (3 \times 9) / 220$
 $I_s = 45 + 100 + 160 + 27 = 332 / 220$
 $I_s = 151 \times 1.25 = 189 \text{ A}$
 USE 2 - 3.5 mm² THHN CU WIRE
 + 1 - 2.0 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 20AT, 2P, 220V, CB

OUT 2 - LIGHTING LOAD
 (LED LIGHT TYPE ALARM FLOOR RECENT LAMP
 & EMERGENCY LIGHT)
 $I_s = (5 \times 9) + (2 \times 50) + (10 \times 16) + (3 \times 9) / 220$
 $I_s = 45 + 100 + 160 + 27 = 332 / 220$
 $I_s = 151 \times 1.25 = 189 \text{ A}$
 USE 2 - 3.5 mm² THHN CU WIRE
 + 1 - 2.0 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 20AT, 2P, 220V, CB

OUT 3 - LIGHTING LOAD
 (FLUORESCENT LAMP, FIRE ALARM
 & EMERGENCY LIGHT)
 $I_s = (5 \times 30) + (1 \times 50) + (2 \times 9) / 220$
 $I_s = 150 + 50 + 18 = 218 / 220$
 $I_s = 99 \times 1.25 = 124 \text{ A}$
 USE 2 - 3.5 mm² THHN CU WIRE
 + 1 - 2.0 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 20AT, 2P, 220V, CB

OUT 4 - CONVENIENCE LOAD
 $I_s = (8 \times 16) / 220$
 $I_s = 128 / 220 = 0.58 \text{ A}$
 $I_s = 4.91 \times 1.25 = 6.14 \text{ A}$
 USE 2 - 3.5 mm² THHN CU WIRE
 + 1 - 2.0 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 20AT, 2P, 220V, CB

OUT 5 - CONVENIENCE LOAD
 $I_s = (1 \times 160) / 220$
 $I_s = 160 / 220 = 0.73 \text{ A}$
 $I_s = 5.73 \times 1.25 = 7.16 \text{ A}$
 USE 2 - 3.5 mm² THHN CU WIRE
 + 1 - 2.0 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 20AT, 2P, 220V, CB

OUT 6 - CONVENIENCE LOAD
 $I_s = (1 \times 160) / 220$
 $I_s = 160 / 220 = 0.73 \text{ A}$
 $I_s = 5.73 \times 1.25 = 7.16 \text{ A}$
 USE 2 - 3.5 mm² THHN CU WIRE
 + 1 - 2.0 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 20AT, 2P, 220V, CB

OUT 7 - AIR-CONDITIONING UNIT (SHP)
 $I_s = 16P / 220$
 $I_s = (5 \times 160) / 220$
 $I_s = 3730 / 220 = 16.95 \text{ A}$
 $I_s = 16.95 \times 1.25 = 21.19 \text{ A}$
 USE 2 - 5.5 mm² THHN CU WIRE
 + 1 - 3.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 30AT, 2P, 220V, CB

OUT 8 - FREEZER (700 WATTS)
 $I_s = 700W / 220$
 $I_s = (1 \times 700) / 220$
 $I_s = 3182 / 220 = 14.46 \text{ A}$
 $I_s = 14.46 \times 1.25 = 18.08 \text{ A}$
 USE 2 - 5.5 mm² THHN CU WIRE
 + 1 - 3.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 30AT, 2P, 220V, CB

OUT 9 - FREEZER (700 WATTS)
 $I_s = 700W / 220$
 $I_s = (1 \times 700) / 220$
 $I_s = 3182 / 220 = 14.46 \text{ A}$
 $I_s = 14.46 \times 1.25 = 18.08 \text{ A}$
 USE 2 - 5.5 mm² THHN CU WIRE
 + 1 - 3.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 30AT, 2P, 220V, CB

OUT 10 - FREEZER (700 WATTS)
 $I_s = 700W / 220$
 $I_s = (1 \times 700) / 220$
 $I_s = 3182 / 220 = 14.46 \text{ A}$
 $I_s = 14.46 \times 1.25 = 18.08 \text{ A}$
 USE 2 - 5.5 mm² THHN CU WIRE
 + 1 - 3.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 30AT, 2P, 220V, CB

OUT 11 - FREEZER (700 WATTS)
 $I_s = 700W / 220$
 $I_s = (1 \times 700) / 220$
 $I_s = 3182 / 220 = 14.46 \text{ A}$
 $I_s = 14.46 \times 1.25 = 18.08 \text{ A}$
 USE 2 - 5.5 mm² THHN CU WIRE
 + 1 - 3.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 30AT, 2P, 220V, CB

OUT 12 - AIR-CONDITIONING UNIT (SHP)
 $I_s = 16P / 220$
 $I_s = (5 \times 160) / 220$
 $I_s = 3730 / 220 = 16.95 \text{ A}$
 $I_s = 16.95 \times 1.25 = 21.19 \text{ A}$
 USE 2 - 5.5 mm² THHN CU WIRE
 + 1 - 3.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 30AT, 2P, 220V, CB

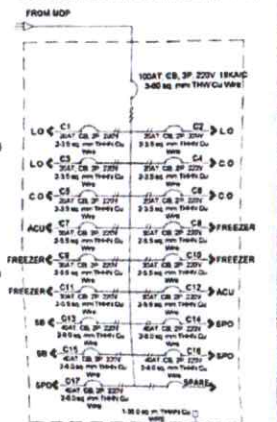
OUT 13 - SPECIAL PURPOSE OUTLET
 $I_s = 3000W / 220$
 $I_s = (1 \times 3000) / 220$
 $I_s = 13636 / 220 = 62.44 \text{ A}$
 $I_s = 62.44 \times 1.25 = 78.05 \text{ A}$
 USE 2 - 8.0 mm² THHN CU WIRE
 + 1 - 5.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 40AT, 2P, 220V, CB

OUT 14 - SPECIAL PURPOSE OUTLET
 $I_s = 3000W / 220$
 $I_s = (1 \times 3000) / 220$
 $I_s = 13636 / 220 = 62.44 \text{ A}$
 $I_s = 62.44 \times 1.25 = 78.05 \text{ A}$
 USE 2 - 8.0 mm² THHN CU WIRE
 + 1 - 5.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 40AT, 2P, 220V, CB

OUT 15 - VACUUM FRYER (2000 WATTS)
 $I_s = 2000W / 220$
 $I_s = (1 \times 2000) / 220$
 $I_s = 9090 / 220 = 41.32 \text{ A}$
 $I_s = 41.32 \times 1.25 = 51.65 \text{ A}$
 USE 2 - 8.0 mm² THHN CU WIRE
 + 1 - 5.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 40AT, 2P, 220V, CB

OUT 16 - SPECIAL PURPOSE OUTLET
 $I_s = 3000W / 220$
 $I_s = (1 \times 3000) / 220$
 $I_s = 13636 / 220 = 62.44 \text{ A}$
 $I_s = 62.44 \times 1.25 = 78.05 \text{ A}$
 USE 2 - 8.0 mm² THHN CU WIRE
 + 1 - 5.5 mm² GROUND WIRE
 IN 20 mm Ø UPVC CONDUIT 40AT, 2P, 220V, CB

ONE LINE DIAGRAM (PP1)



Note: For lighting temporary supply connected to nearest ACB shall be 1.40m above floor finish to panel.
 10' above floor finish to panel.

GENERAL NOTES

- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC).
- THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED WITH ENFORCEMENT OF RULES AND REGULATIONS OF LOCAL UTILITY COMPANY.
- THE SERVICE VOLTAGE TO THE BUILDING SHALL BE 220V, THREE PHASE, 60 CYCLES.
- ADDITIONAL MATERIALS TO BE USED SHALL BE BRAND NEW OF GOOD QUALITY AND TYPE FOR THE LOCATION AND PURPOSES INTENDED.
- ANY ALTERATION OR CHANGES SHALL BE CONSULTED TO A PROFESSIONAL ELECTRICAL ENGINEER.
- BRANCH CIRCUIT HOMERUNS SHALL NOT BE COMBINED IN THE SAME RACEWAY.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
 a) 0.30m ABOVE FLOOR FINISH — C.O. OUTLET & AUX. OUTLET
 b) 1.40m ABOVE FLOOR FINISH — LIGHT CONTROL SWITCH
 c) 1.70m ABOVE FLOOR FINISH — CENTER — PANELBOARDS
 d) ALL OTHER HEIGHTS — VERIFY TO THE ARCHITECT
- ALL SERVICE ENTRANCE EQUIPMENTS SUCH AS PANELBOARD SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PROVISION OF THE PHILIPPINE ELECTRICAL CODE.
- ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
- MINIMUM SIZE OF WIRE FOR LIGHTING SHALL BE 2.0 mm² THHN.
- MINIMUM SIZE OF WIRE FOR CONVENIENCE OUTLET SHALL BE 3.5 mm² THHN.
- MINIMUM SIZE OF WIRE FOR MAIN SERVICE ENTRANCE SHALL BE 8.0 mm².

PREPARED BY:	PROJECT TITLE:	OWNER:	
	CONSTRUCTION OF FOOD INCUBATION CENTER - MOSQUEDA CAMPUS (AS-BUILT PLAN)	LILIAN DIANA B. PARREÑO	
PRC NO:	VALUITY:		
PRC NO:	OR NO:		
INPANO:	DATE:		
PLACE:	TIN:		
	ADDRESS:		
	ADDRESS:		
	DATE:		
	DATE:		

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