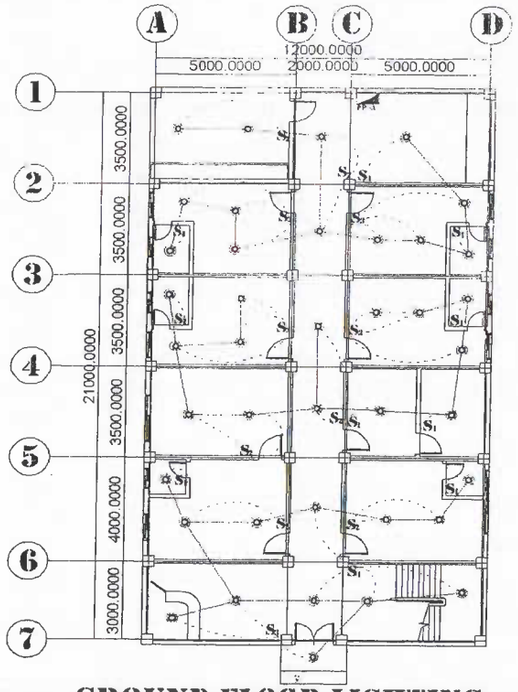
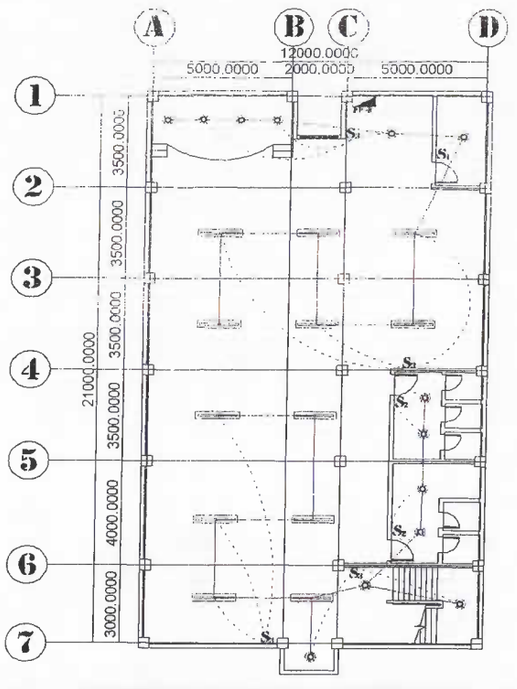


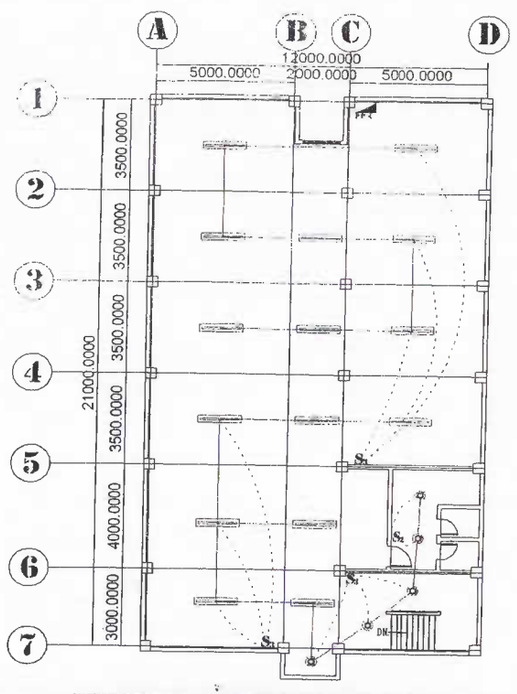
GROUND FLOOR LIGHTING LAYOUT PLAN

1 E-1 | E-1 SCALE 1:200



SECOND FLOOR LIGHTING LAYOUT PLAN

2 E-1 | E-1 SCALE 1:200



THIRD FLOOR LIGHTING LAYOUT PLAN

3 E-1 | E-1 SCALE 1:200

PREPARED BY :

ROMBLON STATE UNIVERSITY

OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT

ELECTRICAL ENGINEER :

JASON H. FALCUNIT

PRC REG No. : 0026211 | Validity :

PTR No. : 8390181 | Date : 1-25-16

Place : ODIONGAN | TIN : 185-109-757

CHECKED BY :

JEROME ADOLFO R. FAJARITO
APSPC OIC-Director

APPROVED BY :

ARNULFO P. DE LUNA
RSU President

PROJECT TITLE :

CONSTRUCTION OF
MULTI – PURPOSE BUILDING

LOCATION : ROMBLON STATE UNIVERSITY - Main Campus, Liwanag, Odiongan, Romblon

SHEET CONTENT:

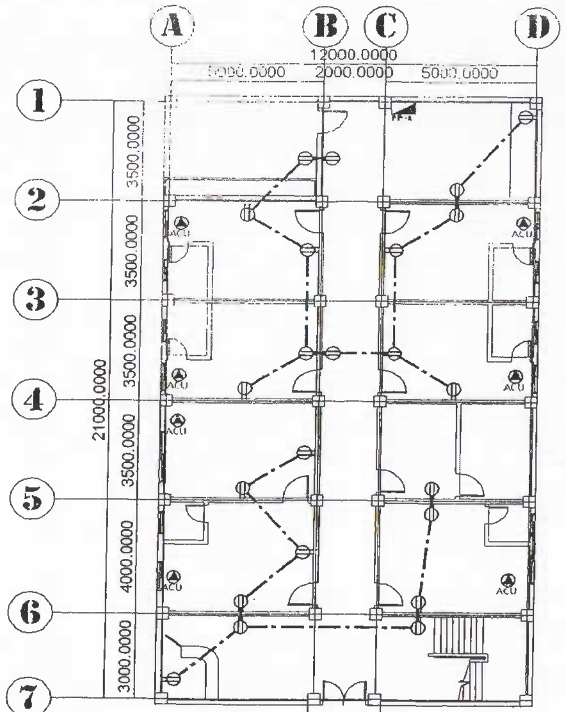
GROUND FLOOR LIGTHING LAYOUT PLAN
SECOND FLOOR LIGHTING LAYOUT PLAN
THIRD FLOOR LIGHTING LAYOUT PLAN

CAD OPERATOR:
Nenwel M. Rotoni

JOB NO. :

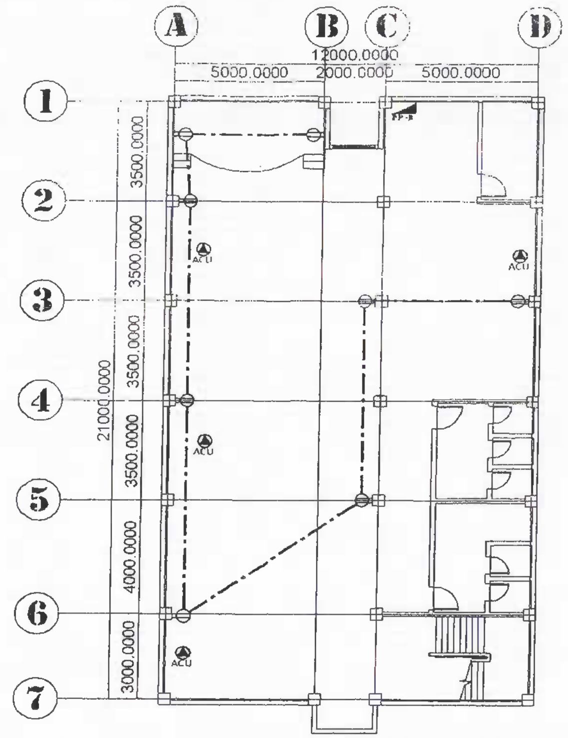
DATE :JUNE 2016

E-1



**GROUND FLOOR C. O.
LAYOUT PLAN**

1 E-2 E-2 SCALE 1:200



**SECOND FLOOR C. O.
LAYOUT PLAN**

2 E-2 E-2 SCALE 1:200

**THIRD FLOOR C. O.
LAYOUT PLAN**

3 E-2 E-2 SCALE 1:200

PREPARED BY :

ROMBLON STATE UNIVERSITY

OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT

ELECTRICAL ENGINEER:
PRC # 0002462
ADDRESS 210 AURELIO ST.
PRC REG. No: Validity:
PTR No: Date:
Place: TIN:

CHECKED BY:
JEROME ADOLFO F. FAJARITO
APSPCO-Director

APPROVED BY:
ARNULFO F. DE LUNA
RSC President

PROJECT TITLE :

CONSTRUCTION OF
MULTI – PURPOSE BUILDING

LOCATION : ROMBLON STATE UNIVERSITY - Main Campus, Liwanag, Odiongan, Romblon

SHEET CONTENT:
GROUND FLOOR C. O. LAYOUT PLAN
SECOND FLOOR C. O. LAYOUT PLAN
THIRD FLOOR C. O. LAYOUT PLAN

CAD OPERATOR:
Neuwel M. Rotoni

JOB NO. :

DATE : JUNE 2016

E-2

PP-A SCHEDULE OF LOADS

CIRCUIT NUMBER	LIGHT OUTLET	CONV. OUTLET	LOAD DESCRIPTION	POWER (VA)	VOLTAGE (VOLTS)	WIRE SIZE	CONDUIT SIZE	PROTECTION AT	PROTECTION AF	AMPERES
1	13		13 L.O. @ 32VA EACH	416	230V	2.0mm^2 THW	15mmø	15	100	1.80AMPS
2	14		14 L.O. @ 32VA EACH	448	230V	2.0mm^2 THW	15mmø	15	100	1.94AMPS
3	13		13 L.O. @ 32VA EACH	416	230V	2.0mm^2 THW	15mmø	15	100	1.80AMPS
4		10	10 C.O. @ 180VA EACH	1800	230V	3.5mm^2 THW	15mmø	20	100	7.82AMPS
5		12	12 C.O. @ 180VA EACH	2160	230V	3.5mm^2 THW	15mmø	20	100	9.39AMPS
6			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
7			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
8			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
9			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
10			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
11			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
12			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
TOTAL				18120	230V					78. 75 AMPS

PP-B SCHEDULE OF LOADS

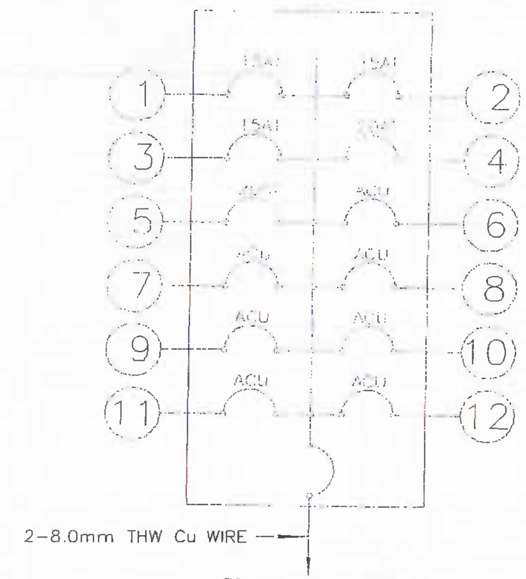
CIRCUIT NUMBER	LIGHT OUTLET	CONV. OUTLET	LOAD DESCRIPTION	POWER (VA)	VOLTAGE (VOLTS)	WIRE SIZE	CONDUIT SIZE	PROTECTION AT	PROTECTION AF	AMPERES
1	13		13 L.O. @ 32VA EACH	416	230V	2.0mm^2 THW	15mmø	15	100	1.80AMPS
2	12		12 L.O. @ 32VA EACH	384	230V	2.0mm^2 THW	15mmø	15	100	1.66AMPS
3		8	8 C.O. @ 180VA EACH	1440	230V	3.5mm^2 THW	15mmø	20	100	6.26AMPS
4			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
5			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
6			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
7			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm^2 THW	15mmø	20	50	8.00MPS
8			SPARE	180	230V	2.0mm^2 THW	15mmø	20	50	0.78MPS
TOTAL				9780	230V					42. 50 AMPS

TOTAL COMPUTATION OF LOADS

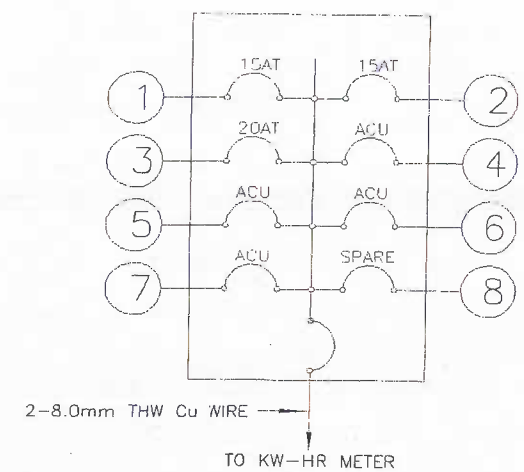
MAXIMUM POWER DEMAND = TOTAL COMPUTED LOAD X DEMAND FACTOR

@ 80% B.F.

$$= \frac{(18120 + 9780 + 9440)0.80}{230} = \frac{29872}{230} = 129.87\text{Amps}$$



1 E-3 E-3 **PP - A CIRCUIT BREAKER DIAG.**
SCALE NTS.

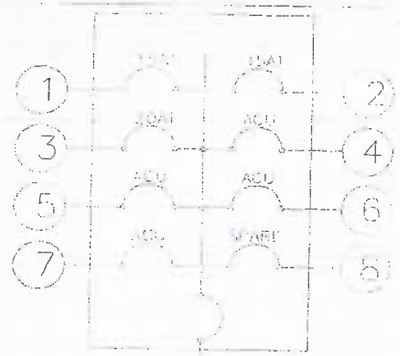


2 E-3 E-3 **PP - B CIRCUIT BREAKER DIAG.**
SCALE NTS.

PREPARED BY :		CHECKED BY :	PROJECT TITLE :	SHEET CONTENT:		
ROMBLON STATE UNIVERSITY OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT	ROLANDO N. CRUZ PROF. ELECTRICAL ENGINEER PRC # 0002662 ADDRESS 210 AURELIO BLDG. RIZAL AVE./9TH AVE. CALOOCAN PTR No. Date	JEROME ADOLFO F. FAJARITO APSPCO- Director APPROVED BY: ARNULFO DE LUNA	CONSTRUCTION OF MULTI – PURPOSE BUILDING	PP-A SCHEDULE OF LOADS PP-B SCHEDULE OF LOADS PP-A CIRCUIT BREAKER DIAGRAM PP-B CIRCUIT BREAKER DIAG. TOTAL COMPUTATION OF LOADS	CAD OPERATOR: Nenwel M. Rotoni JOB NO. : DATE :JUNE 2016	E-3

PP-C SCHEDULE OF LOADS

CIRCUIT NUMBER	LIGHT OUTLET	CONV. OUTLET	LOAD DESCRIPTION	POWER (VA)	VOLTAGE (VOLTS)	WIRE SIZE	CONDUIT SIZE	PROT. AT	PROT. AF	AMPERES
1	12		12 L.O. @ 32VA EACH	384	230V	2.0mm THW	15mmø	15	100	1.66AMPS
2	8		8 L.O. @ 32VA EACH	256	230V	2.0mm THW	15mmø	15	100	1.11AMPS
3		7	7 C.O @ 180VA EACH	1260	230V	3.5mm THW	15mmø	20	100	5.47AMPS
4			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm THW	15mmø	20	50	8.00MPS
5			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm THW	15mmø	20	50	8.00MPS
6			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm THW	15mmø	20	50	8.00MPS
7			1HP, 230V, 1PHASE ACU	1840	230V	2.0mm THW	15mmø	20	50	8.00MPS
8			SPARE	180	230V	2.0mm THW	15mmø	20	50	0.78MPS
TOTAL				9440	230V					41.02 AMPS



1 PP - B CIRCUIT BREAKER DIAG.
E-4 E-4 SCALE NTS.

ELECTRICAL NOTES :

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE W/ THE PROVISION OF THE LATEST EDITION OF THE PHIL. ELECTRICAL CODE (PEC). THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED WITH ENFORCEMENT OF RULES AND REGULATIONS OF LOCAL UTILITY COMPANY.
2. THE SERVICE VOLTAGE TO THE BUILDING SHALL BE THREE (3) PHASE, FOUR (4)WIRE 230 VOLTS, 40 HERTZ SYSTEM.
3. THE INSTALLATION SHALL BE DONE AS FOLLOWS
   A. RIGID STEEL CONDUIT (RSC) - POWER SERVICE ENTRANCE FEEDERS
   B. POLYVENYL CHLORIDE (PVC) - LIGHTING POWER BRANCH CIRCUITS AND AUXILIARY LAYOUT.
4. ALL WIRES TO BE USED SHALL BE COPPER AND THERMOPLASTIC HEAT INSULATED TYPE "THIN" UNLESS NOTED OTHERWISE SPECIFIED.
5. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR THE LOCATION AND PURPOSED INTENDED.
6. THE MINIMUM SIZE OF WIRE AND CONDUIT TO BE USED SHALL BE 1.4mm THIN AND 2.0mmØ RESPECTIVELY.
7. WHENEVER NECESSARY PULL BOX SHALL BE PRODUCED EVEN NOT INDICATED BY THE PLAN.
8. BRANCH CIRCUIT HOMERUNS SHALL NOT BE COMBINED BY THE SAME RACEWAY AND RACEWAY FOR AUXILIARY LINES SHALL NOT CONTAIN POWER LINES.
9. MOUNTING HEIGHTS SHALL BE AS FOLLOWS
   a. 0.30m ABOVE FLOOR FINISH - CONV. OUTLET & AUX. OUTLET
   b. 1.40m ABOVE FLOOR FINISH - LIGHT CONTROL SWITCH
   c. 1.70m ABOVE FLOOR FINISH @ CENTER - PANEL BOARDS
   d. ALL OTHER HEIGHTS - VERIFY TO THE ARCHITECT/ENGINEER
10. ALL SERVICE ENTRANCE EQUIPMENTS SUCH AS PANELBOARD SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PROVISION OF THE PHILIPPINE ELECTRICAL CODE.
11. ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

LEGEND:

- CEILING LIGHT(LED)
- FLUORESCENT LAMP
- C.O. DUPLEX CONVENIENCE OUTLET
- RISER
- CIRCUIT BREAKER
- S1 SINGLE SWITCH IN ONE GANG
- RACEWAY EMBEDDED TO CEILING
- PP-A LIGHTING AND POWER PANEL
- (1) CIRCUIT HOMERUN
- SERVICE ENTRANCE
- (M) KILOWATTHOUR METER
- RACEWAY EMBEDDED TO FLOOR
- SWITCH RACEWAY
- ACU 1 HORSE POWER AIRCON. UNIT
- S2 DOUBLE SWITCH IN ONE GANG

PREPARED BY :

ROMBLON STATE UNIVERSITY

OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT

ROLANDO M. ERUZ
ELECTRICAL ENGINEER
PRC # 0002662
ADDRESS 210 AURELIO BLDG. AVE (7TH AVE. EALRE...
TEL # 4921638 DATE: 01-[illegible]
PTR No.: Date:
Place: TIN:

CHECKED BY :
JEROME ADOLFO F. FAJARITO
APSCO. Director

APPROVED BY :
ARNULFO F. DE LUNA
[illegible]

PROJECT TITLE :
CONSTRUCTION OF MULTI – PURPOSE BUILDING
LOCATION : ROMBLON STATE UNIVERSITY - Main Campus, Liwayway, Odiongan, Romblon

SHEET CONTENT:
PP-C SCHEDULE OF LOADS
PP-C CIRCUIT BREAKER DIAGRAM
ELECTRICAL NOTES
LEGEND

CAD OPERATOR:
Nenuel M. Rotoni
JOB NO. :
DATE : JUNE 2016

E-4