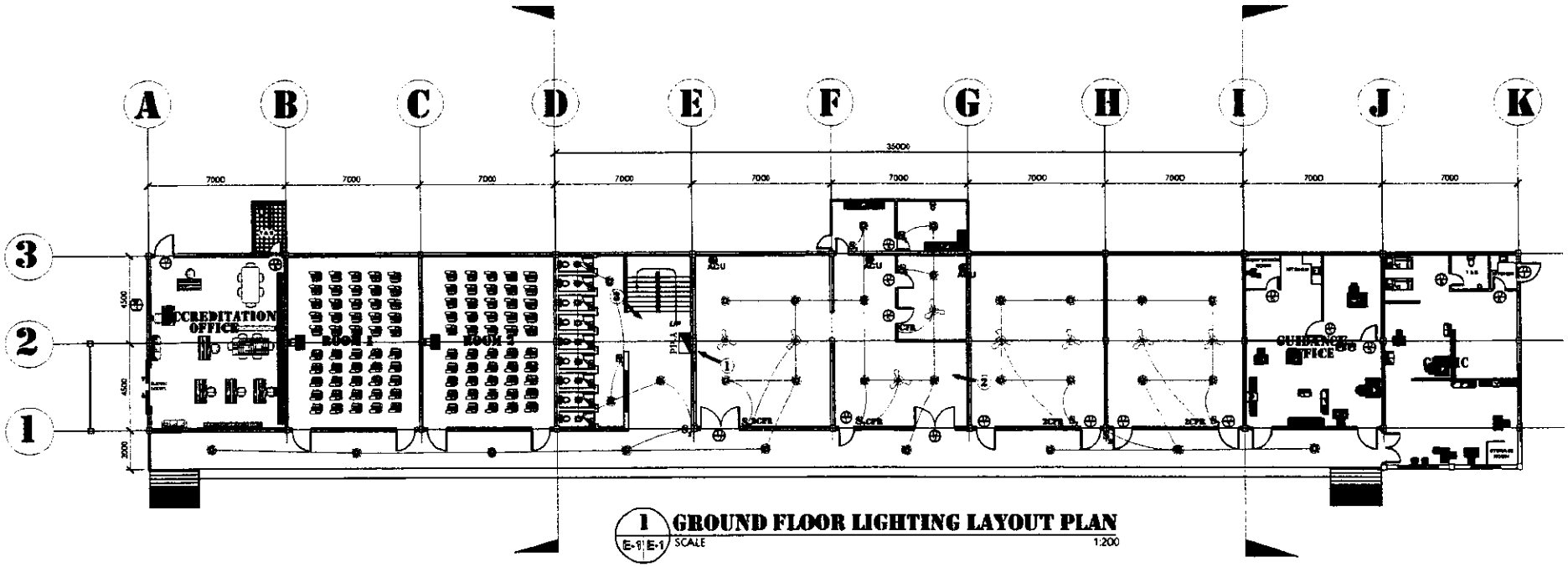
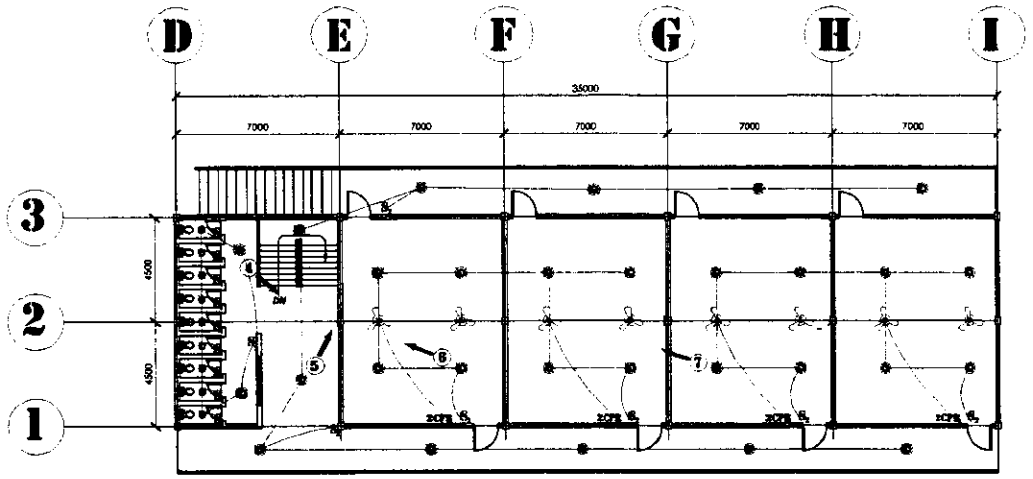
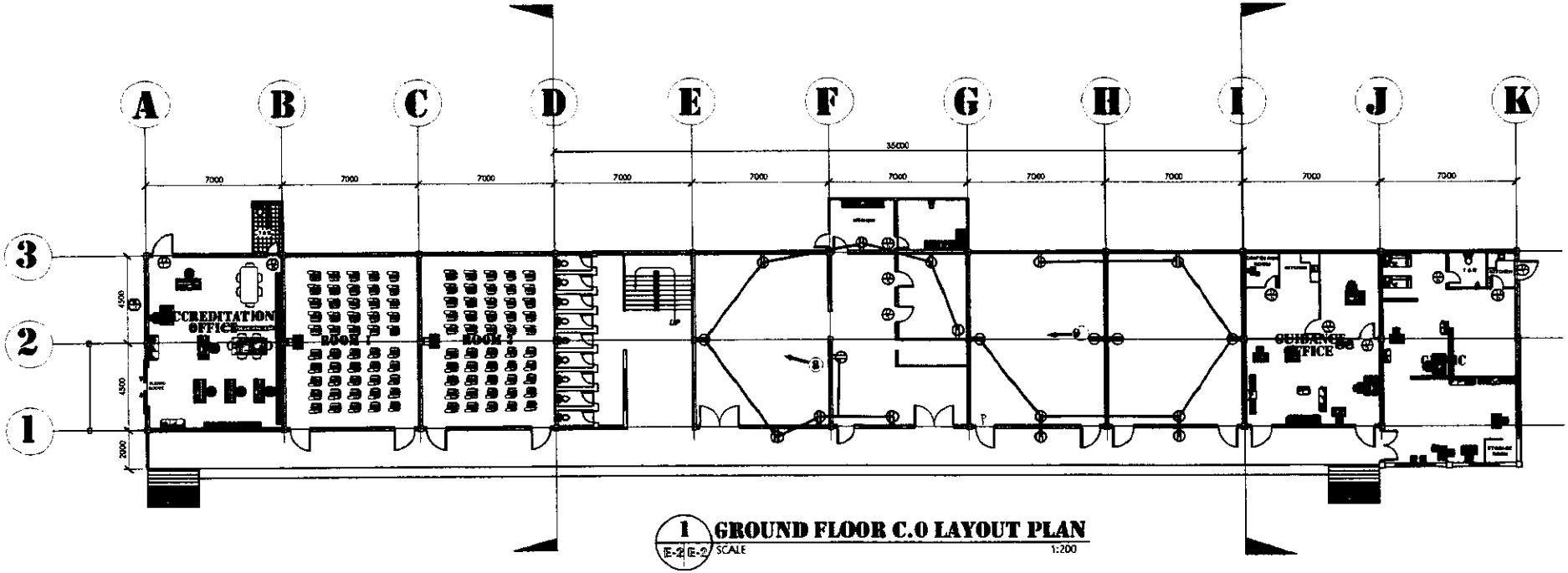


1 E-1 E-1 **GROUND FLOOR LIGHTING LAYOUT PLAN**
SCALE 1:200

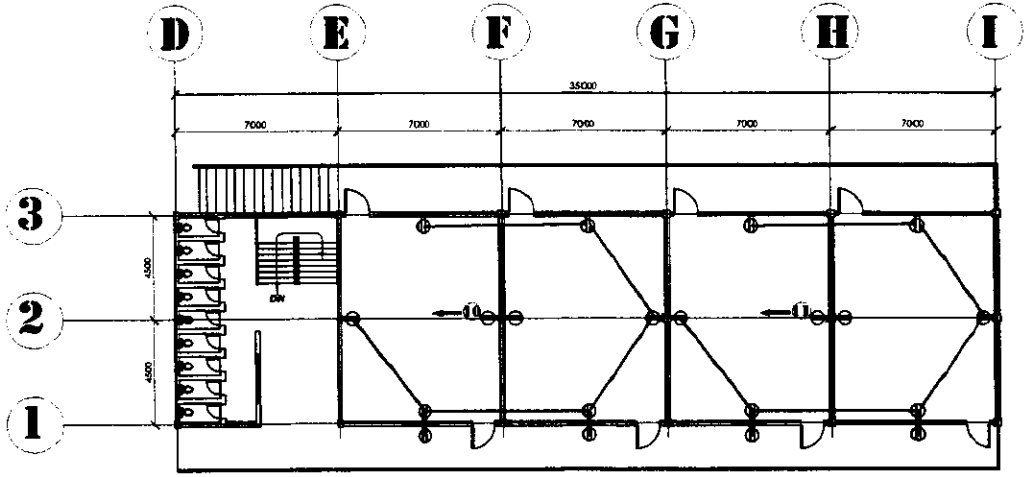


2 E-1 E-1 **SECOND FLOOR LIGHTING LAYOUT PLAN**
SCALE 1:200

PREPARED BY :	ELECTRICAL ENGINEER:	CHECKED BY :	PROJECT TITLE :	SHEET CONTENT:	
ROMBLON STATE UNIVERSITY OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT	PRC REG. No Validity PTR No. Date : Place : TIN #	JASON P. JEPSON APSPCO- Director APPROVED BY: ARNULFO R. DE LUNA SUC President	**REHABILITATION OF CAS BUILDING** LOCATION : ROMBLON STATE UNIVERSITY - Main Campus, Limasag, Odiongan, Romblon	AS SHOWN	CAD OPERATOR: JOB NO. : DATE :



1 E-2 E-2 **GROUND FLOOR C.O LAYOUT PLAN**
SCALE 1:200



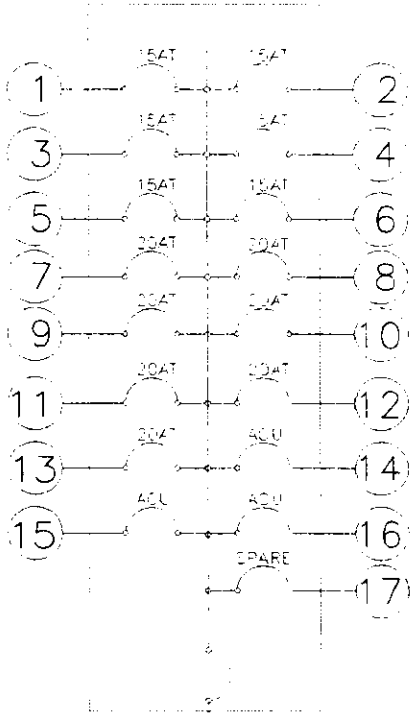
2 E-2 E-2 **SECOND FLOOR C.O LAYOUT PLAN**
SCALE 1:200

PREPARED BY :		CHECKED BY :	PROJECT TITLE :	SHEET CONTENT:	
ROMBLON STATE UNIVERSITY OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT	RODELIO C. MUÑOZ PROFESSIONAL ELECTRICAL PRC REG. No. [illegible] Validity [illegible] MANILA PTR No. : Date : Place TIN	JOHN E. RUPON APSPCO Director APPROVED BY: ARNULFO E. DE LUNA RSU President	**REHABILITATION OF CAS BUILDING** LOCATION : ROMBLON STATE UNIVERSITY - Main Campus, Liwanag, Odiongan, Romblon	AS SHOWN	CAD OPERATOR: JOB NO. : DATE :

E-

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	16		16 L.O. @ 32VA EACH	512	230V	2.0mm² THW	15mmø	20	100	2.23AMPS
2	11		11 L.O. @ 32VA EACH	352	230V	2.0mm² THW	15mmø	15	100	1.53AMPS
3	12		12 L.O. @ 32VA EACH	384	230V	2.0mm² THW	15mmø	15	100	1.67AMPS
4	11		11 L.O. @ 32VA EACH	352	230V	2.0mm² THW	15mmø	15	100	1.53AMPS
5	11		11 L.O. @ 32VA EACH	352	230V	2.0mm² THW	15mmø	15	100	1.53AMPS
6	8		8 L.O. @ 32VA EACH	256	230V	2.0mm² THW	15mmø	15	100	1.11AMPS
7	8		8 L.O. @ 32VA EACH	256	230V	2.0mm² THW	15mmø	20	100	1.11AMPS
8		9	9 C.O. @ 180VA EACH	1620	230V	2.0mm² THW	15mmø	20	100	7.04AMPS
9		10	10 C.O. @ 180VA EACH	1800	230V	3.5mm² THW	15mmø	20	100	7.83AMPS
10		10	10 C.O. @ 180VA EACH	1800	230V	3.5mm² THW	15mmØ	20	100	7.83AMPS
11		10	10 C.O. @ 180VA EACH	1800	230V	3.5mm THW	15mmø	20	100	7.83AMPS
12			7 CIELING FAN @ 180VA EACH	1260	230V	3.5mm² THW	15mmø	20	100	6.26AMPS
13			8 CIELING FAN @ 180VA EACH	1440	230V	3.5mm² THW	15mmø	20	100	5.47AMPS
14			1HP, 230V, IPHASE ACU (SPLIT TYPE) (INVERTER TYPE)	1840	230V	5.5mm² THW	15mmø	20	100	8.0AMPS
15			1HP, 230V, IPHASE ACU (SPLIT TYPE) (INVERTER TYPE)	1840	230V	5.5mm² THW	15mmØ	30	100	8.0AMPS
16			1HP, 230V, IPHASE ACU (SPLIT TYPE) (INVERTER TYPE)	1840	230V	5.5mm² THW	15mmø	20	100	8.0AMPS
17			SPARE	180	230V	3.5mm² THW	15mmØ	30	100	0.78AMPS
TOTAL				17884	230V					77.75AMPS



2-8.0mm THW Cu WIRE

TO KW-HR METER

INCOMING SERVICE
230VOLTS, 1 PHASE
2-NO.6 THHN Cu WIRE

BUS BAR GUTTER

M

PP-A

2 E-5 E-5 **LINE DIAGRAM**
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 'THW' 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 THW 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.

1 E-5 E-5 **PP-A CIRCUIT BREAKER DIA.**
SCALE NTS.

TOTAL COMPUTATION OF LOADS

MAXIMUM POWER DEMAND = TOTAL COMPUTED LOAD X DEMAND FACTOR
@ 80% B.F.
= (17884) 0.80
MAX. POWER DEMAND = 14307.2VA

$$I_T = \frac{14307.2}{230} = 62.205\text{Amps}$$

LEGEND:

- CEILING LIGHT
- FLUORESCENT LAMP
- DUPLEX CONVENIENCE OU
- RISER
- CIRCUIT BREAKER
- SINGLE SWITCH IN ONE G.
- RACEWAY EMBEDDED TO C
- RACEWAY EMBEDDED TO FLOOR
- SWITCH RACEWAY
- ACU — 1 HORSE POWER AIRCON. UNIT
- S2 — DOUBLE SWITCH IN ONE G
- PP-A — LIGHTING AND POWER
- 1 — CIRCUIT HOMERUN
- SERVICE ENTRANCE
- M — KILOWATTHOUR METE

PREPARED BY:	CHECKED BY:	PROJECT TITLE:	SHEET CONTENT:		
ROMBLON STATE UNIVERSITY OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT	ELTO C. MUÑOZ PROFESSIONAL ELECTRICAL PRC RE 6 No. Validity: 03/03/2020 PTR No. Date: Place: TIN	APPROVED BY: ARNULFO P. DE LUNA RSU President	REHABILITATION OF CAS BUILDING LOCATION : ROMBLON STATE UNIVERSITY - Main Campus, Liwanag, Odiongan, Romblon	AS SHOWN	CAD OPERATOR: JOB NO. : DATE: