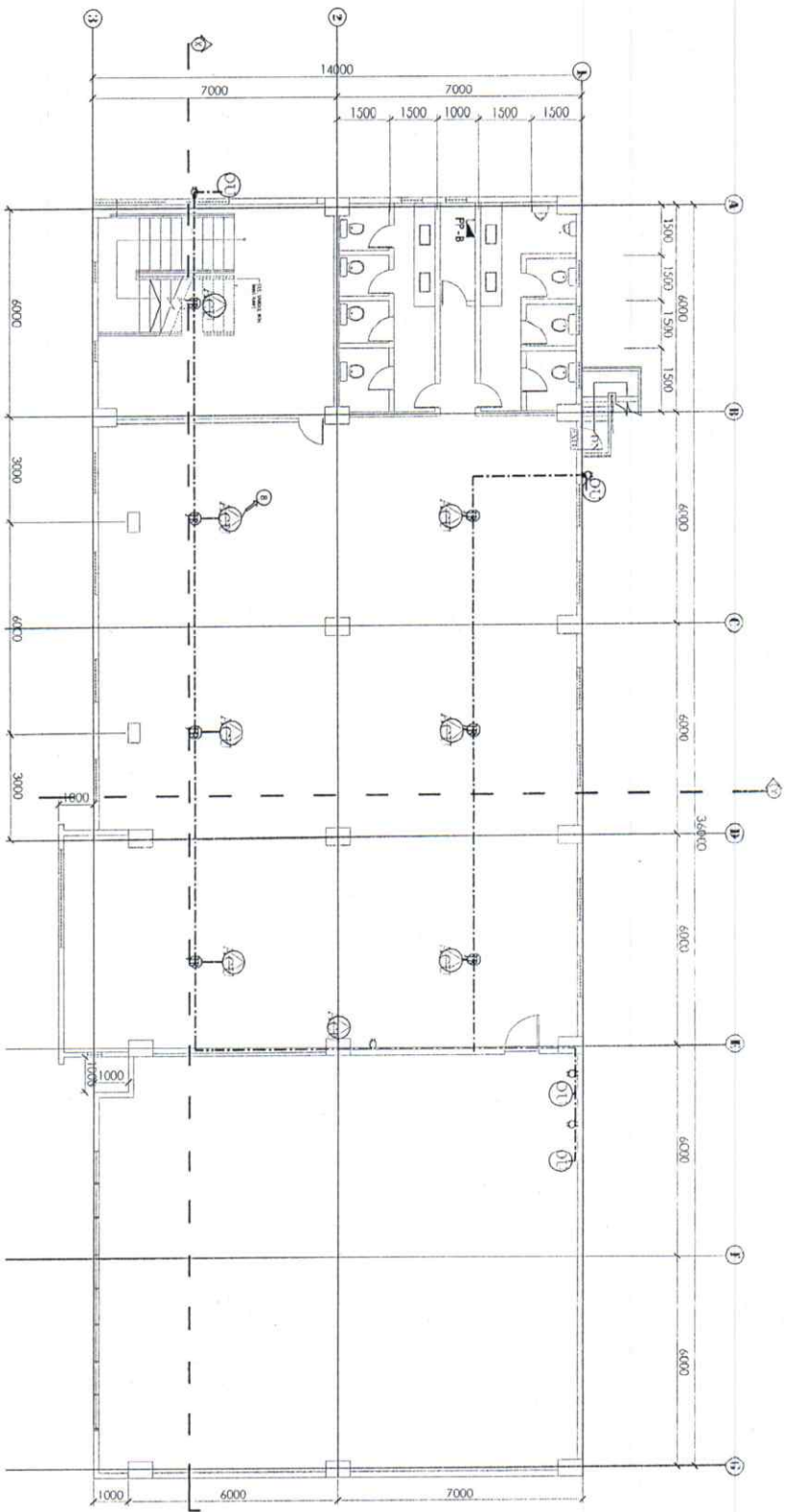


E-7 E-7

1 GROUND FLOOR ACU & OU POWER LAYOUT PLAN

NTS.

PREPARED BY: ROMBLON STATE UNIVERSITY OFFICE OF PHYSICAL PLANNING AND FACILITIES	ELECTRICAL ENGINEER: ROLANDO N. CRUZ <small>PRO. LICENSE NO. 2002</small> <small>REG. NO. 210</small> <small>DATE: 5/14/12</small> <small>TIN: 824993</small>	CHECKED BY: <small>APPROVED BY:</small> <small>PRO. LICENSE NO. 2002</small> <small>REG. NO. 210</small> <small>DATE: 5/14/12</small> <small>TIN: 824993</small>	PROJECT TITLE: REHABILITATION AND FURNISHING OF OLD/EXISTING UNIVERSITY BUILDING	SHEET CONTENT: AS SHOWN	PREPARED BY: CAD OPERATOR: BSCS / SIM JOB NO.: DATE:	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> E-7 </div>
LOCATION: ROMBLON STATE UNIVERSITY - Main Campus, Linares, Orizaba, Zamboanga						



E-9
E-9

1 THIRD FLOOR ACU & OU POWER LAYOUT PLAN

NTS.

PREPARED BY: ROBELOM STATE UNIVERSITY OFFICE OF PHYSICAL PLANT AND FACILITIES	ELECTRICAL ENGINEER: ROLANDO N. CREE PRG REG. NO. 24112 EXPIRES 12/31/2008 PLACE: [blank] TIN: [blank]	CHECKED BY: JASON P. RYAN APPROVED BY: ALPHONSO CANTAVANAHAN JR. D. CREE	PROJECT TITLE: REHABILITATION AND FURNISHING OF OLD/EXISTING UNIVERSITY BUILDING LOCATION: ROBELOM STATE UNIVERSITY - East Campus, Lansing, Michigan, Kamdar	SHEET CONTENT: AS SHOWN	PREPARED BY: CAD OPERATOR: JOSC / SLM JOB NO.: DATE:	E-9
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PRG # 2820973 1/4/12

PP-A SCHEDULE OF LOADS

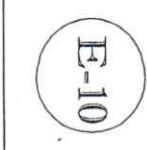
CIRCUIT NUMBER	LOAD DESCRIPTION	KVA	LOAD			Wiring			CONDUCTOR			RACEWAY	
			3φ	Δ	Line	AT	AF	P	TYPE	SIZE (min. x max.)	SIZE (min.)	TYPE	LENGTH (ft.)
1	Lighting	276	12			20	50	2	THHN	2.0 x 2	2.0	15	PVC
2	Lighting	501		2.17		20	50	2	THHN	2.0 x 2	2.0	15	PVC
3	Lighting	516			2.21	20	50	2	THHN	2.0 x 2	2.0	15	PVC
4	EM Lighting	100			0.61	30	50	2	THHN	2.0 x 2	2.0	15	PVC
5	CO-1	2000			8.1	30	50	2	THHN	3.5 x 2	2.0	15	PVC
6	CO-2	2400			10.43	30	50	2	THHN	3.5 x 2	2.0	15	PVC
7	CO-3	2000			11.3	20	50	2	THHN	3.5 x 2	2.0	15	PVC
8	CCTV	150			0.65	20	50	2	THHN	3.5 x 2	2.0	15	PVC
9	Free Alarm	100			0.41	20	50	2	THHN	3.5 x 2	2.0	15	IMC/
10	ACU1 1.5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC
11	ACU2 1.5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC
12	ACU3 2.0HP	1865			8.1	20	50	2	THHN	3.5 x 2	2.0	15	PVC
13	ACU4 1.2 5HP	2331			10.13	20	50	2	THHN	3.5 x 2	2.0	15	PVC
14	ACU4-2 5HP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC
15	ACU5-1 2 5HP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC
16	ACU5-2 5HP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC
17	ACU6-1 2 5HP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC
18	ACU6-2 5HP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC
19	ACU7-1 2 0HP	1865			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC
20	ACU7-2 0HP	1865			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC
21	ACU8-1 2 0HP	1865			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC
22	ACU8-2 0HP	1865			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC
23	ACU9-1 2 0HP	1865			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC
24	ACU9-2 0HP	1865			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC

CIRCUIT NUMBER	LOAD DESCRIPTION	KVA	LOAD			Wiring			CONDUCTOR			RACEWAY	
			3φ	Δ	Line	AT	AF	P	TYPE	SIZE (min. x max.)	SIZE (min.)	TYPE	LENGTH (ft.)
25	ACU10-1 5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC
26	ACU10-2 5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC
27	ACU10-3 5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC
28	ACU10-4 5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC
29	ACU11-1 2 0HP	1865			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC
30	ACU11-2 2 0HP	1865			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC
31	OU1 4HP	3730			16.22	40	50	2	THHN	5.5 x 2	2.0	15	PVC
32	OU2 5HP	4652			20.25	50	50	2	THHN	8.0 x 2	3.5	20	PVC
33	OU3 5HP	4652			20.25	50	50	2	THHN	8.0 x 2	3.5	20	PVC
34	OU4 5HP	4652			20.25	50	50	2	THHN	8.0 x 2	3.5	20	PVC
35	OU5 4HP	3730			16.22	40	50	2	THHN	5.5 x 2	2.0	15	PVC
36	OU6 4HP	3730			16.22	40	50	2	THHN	5.5 x 2	2.0	15	PVC
37	OU7 4HP	3730			16.22	40	50	2	THHN	5.5 x 2	2.0	15	PVC
38	OU8 5HP	4652			20.25	50	50	2	THHN	8.0 x 2	3.5	20	PVC
39	OU9 5HP	2957			12.16	30	50	2	THHN	3.5 x 2	2.0	15	PVC
40	SPACE 114VA 3P	2000			5	20	50	2	THHN	3.5 x 3	2.0	15	PVC
41	SPACE 114VA 3P	2000			5	20	50	2	THHN	3.5 x 3	2.0	15	PVC
42	Air Curtain	1500			6.81	30	50	2	THHN	3.5 x 2	2.0	15	PVC
43	Sliding Door	1500			6.81	30	50	2	THHN	3.5 x 2	2.0	15	PVC
44	SPACE 2P	1000			4.2	30	50	2	THHN	3.5 x 2	2.0	15	PVC
45	SPACE 2P	1000			4.2	30	50	2	THHN	3.5 x 2	2.0	15	PVC
46	SPACE					30	50	2	THHN	3.5 x 2	2.0	15	PVC
	TOTAL	53,167.00	10.00	127.18	212.92	130.14							

DEMAND FACTOR : _____ %
 MAIN BREAKER : _____ 200 AT _____ 200 AF _____ 3 P _____ 210 Y
 DEMAND LOAD : _____ Kva
 FEEDER : THHN 100MM2 X3, E14, IN CABLE LADDER/DUCTBANK
 VOLTAGE DROP : _____ % @ Length : _____ m CALCULATION : _____
 WIRE SIZE : _____ Sqmm
 IC = 10 + 1732 (130.14) = 236A
 @ 80 DT = 236 * 0.8 = 189A
 IT = (188-20.27) + (125*20.27) = 193A
 ICB = (188-20.27)+90 = 217A

PREPARED BY: _____
 ELECTRICAL ENGINEER: _____
 CHECKED BY: _____
 PROJECT TITLE: _____
 SHEET CONTENT: _____

ROMBLON STATE UNIVERSITY
**REHABILITATION AND FURNISHING OF
 OLD/EXISTING UNIVERSITY LIBRARY**
 LOCATION: ROMBLON STATE UNIVERSITY - Main Campus, Linaang, Digosan, Romblon
 CAD OPERATOR: BCSG / SLM
 JOB NO.: _____
 DATE: _____



PP-B SCHEDULE OF LOADS

CIRCUIT NUMBER	LOAD DESCRIPTION	KVA	LOAD			CONDUCTOR			RECEIVE					
			3-φ	φ-R	φ-NC	AT	AV	P	TYPE	SIZE (mm ²)	CS	SIZE (mm ²)	TYPE	LENGTH (m)
1	Lighting	276	12			20	50	2	THHN	2.0 x 2	2.4	15	PVC	
2	Lighting	501		2.11		20	50	2	THHN	2.0 x 2	2.4	15	PVC	
3	Lighting	516			2.24	20	50	2	THHN	2.0 x 2	2.4	15	PVC	
4	Lighting + Chandelier	871			3.19	20	50	2	THHN	2.0 x 2	2.4	15	PVC	
5	EN Lighting	180			0.83	30	50	2	THHN	3.5 x 2	2.1	15	PVC	
6	CC 1	2000			8.1	30	50	2	THHN	3.5 x 2	2.1	15	PVC	
7	CC 2	2400			10.43	30	50	2	THHN	3.5 x 2	2.1	15	PVC	
8	CC 3	2500			11.3	30	50	2	THHN	3.5 x 2	2.1	15	PVC	
9	ACU12-1.2SHP	1885			8.1	30	50	2	THHN	3.5 x 2	2.9	15	PVC	
10	ACU12-2.0HP	1885			8.1	30	50	2	THHN	3.5 x 2	2.9	15	PVC	
11	ACU13-2.0HP	1885			8.1	30	50	2	THHN	3.5 x 2	2.9	15	PVC	
12	ACU14-2.0HP	1885			8.1	30	50	2	THHN	3.5 x 2	2.9	15	PVC	
13	ACU15-1.5HP	1398			6.08	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
14	ACU15-2.1SHP	1398			6.08	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
15	ACU13-1.5HP	1398			6.08	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
16	ACU14-1.5HP	1398			6.08	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
17	ACU14-2.5HP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
18	ACU14-3.2SHP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
19	ACU14-3.2SHP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
20	ACU14-4.2SHP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
21	ACU15-2.5HP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
22	ACU15-1.5HP	1398			6.08	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
23	ACU17-1.2SHP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
24	ACU17-1.2SHP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	

CIRCUIT NUMBER	LOAD DESCRIPTION	KVA	LOAD			CONDUCTOR			RECEIVE						
			3-φ	φ-R	φ-NC	AT	AV	P	TYPE	SIZE (mm ²)	CS	SIZE (mm ²)	TYPE	LENGTH (m)	
25	ACU18-1.5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
26	ACU18-1.5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
27	ACU18-1.5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
28	ACU20-1.5HP	1398			6.07	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
29	ACU21-2.0HP	1885			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
30	ACU22-1.2SHP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
31	ACU22-2.5HP	2331			10.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC		
32	ACU23-2.0HP	1885			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
33	ACU23-2.0HP	1885			8.11	20	50	2	THHN	3.5 x 2	2.0	15	PVC		
34	OU10-4HP	3730			12.21	40	50	2	THHN	5.5 x 2	3.5	20	PVC		
35	OU11-5HP	4662			12.16	30	50	2	THHN	3.5 x 2	3.5	15	PVC		
36	OU12-1.5HP	4662			20.21	50	50	2	THHN	8.0 x 2	2.0	15	PVC		
37	OU12-2.5HP	4662			20.21	50	50	2	THHN	8.0 x 2	2.0	15	PVC		
38	OU13-4HP	3730			16.22	40	50	2	THHN	5.5 x 2	2.0	20	PVC		
39	OU14-5HP	4662			16.22	40	50	2	THHN	8.0 x 2	2.0	15	PVC		
40	OU15-5HP	4662			12.16	30	50	2	THHN	3.5 x 2	3.5	15	PVC		
41	OU16-4HP	3730			16.22	40	50	2	THHN	5.5 x 2	2.0	15	PVC		
42	OU17-5HP	4662			20.21	50	50	2	THHN	8.0 x 2	2.0	15	PVC		
43	OU18-4HP	3730			16.22	40	50	2	THHN	5.5 x 2	2.0	15	PVC		
44	SPARE NVA-3P	2000			1	20	50	3							
45	SPARE NVA-3P	2000			1	20	50	3							
46	SPARE 2P	1000			42	30	50	2							
47	SPARE 2P	1000			42	30	50	2							
48	SPACE					30	50	2							
TOTAL:		101,062.00	11.00	14.17	145.53										

DEMAND FACTOR : _____ %
 MAIN BREAKER : 225 AF, 225 AF, 3 P, 230 Y
 DEMAND LOAD : _____ Kva
 FEEDER : THHN 100MM² X3, E14, IN CABLE LADDER/DUCTBANK
 VOLTAGE DROP : _____ % @ Length : _____ m
 CALCULATION : _____
 WIRE SIZE : _____ Sq.mm
 IC = 10 + 1.132 (14563) = 262.231
 @ 80 DF = 262.23 * 0.8 = 209.8
 IF = (209.20.27) + (1.25*20.27) = 214.061
 ICB = (209.20.27) + 50 = 238.131

PREPARED BY : _____ ELECTRICAL ENGINEER
 CHECKED BY : _____
 APPROVED BY : _____
 PROJECT TITLE : _____

ROMELTON STATE UNIVERSITY

ROMELTON STATE UNIVERSITY

REHABILITATION AND FURNISHING OF OLD/EXISTING UNIVERSITY BUILDING

AS SHOWN

CAD OPERATOR: _____
 BSCG / SLM

DATE : _____

OFFICE OF PHYSICAL PLANT AND FACILITIES

APPROVED BY : _____
 DATE : _____

LOCATION : ROMELTON STATE UNIVERSITY - Main Campus, Jember, Jember, Jember

AS SHOWN

CAD OPERATOR: _____
 BSCG / SLM

DATE : _____

E-11

PP-C SCHEDULE OF LOADS

CIRCUIT NUMBER	LOAD DESCRIPTION	KVA	LOAD AMPERES			CIRCUIT BREAKER			CONDUCTOR TYPE	SIZE (mm ²)	CND	RECEIVE SIZE (mm ²)	TYPE	LENGTH (m)
			3-φ	φ 18	φ 16	φ 14	AT	AF						
1	Lighting	304	0.89			20	50	2	THHN	2.0 x 2	2.0	15	PVC	
2	Lighting	432		1.88		20	50	2	THHN	2.0 x 2	2.0	15	PVC	
3	Lighting	432			1.88	20	50	2	THHN	2.0 x 2	2.0	15	PVC	
4	EM Lighting	100			6.43	20	50	2	THHN	2.0 x 2	2.0	15	PVC	
5	CO-1	2200			12.91	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
6	CO-2	1400			16.43	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
7	ACU2-1 2SHP	3331			16.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
8	ACU2-2 2SHP	3331			16.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
9	ACU2-3 2SHP	3331			16.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
10	ACU2-4 2SHP	3331			16.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
11	ACU2-5 2SHP	3331			16.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
12	ACU2-6 2SHP	3331			16.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
13	ACU2-7 2SHP	3331			16.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
14	ACU2-8 2SHP	3331			16.13	30	50	2	THHN	3.5 x 2	2.0	15	PVC	
15	OU191 SHP	4662			26.27	50	50	2	THHN	8.0 x 2	2.0	15	PVC	
16	OU192 SHP	4662			26.27	50	50	2	THHN	8.0 x 2	2.0	15	PVC	
17	OU193 SHP	4662			26.27	50	50	2	THHN	8.0 x 2	2.0	15	PVC	
18	OU20 SHP	4662			26.27	50	50	2	THHN	8.0 x 2	2.0	15	PVC	
19	SPARE 1WVA 3P	2000			5	20	50	2						
20	SPARE 1WVA 3P	2000			5	20	50	2						
21	SPARE 2P	1000			42	30	50	2						
22	SPARE 2P	1000			42	30	50	2						
23	SPARE 2P	1000			42	30	50	2						
TOTAL:		50864.00	10.00	66.18	66.45	6.31								

MDP SCHEDULE OF LOADS

CIRCUIT NUMBER	LOAD DESCRIPTION	KVA	LOAD AMPERES			CIRCUIT BREAKER			CONDUCTOR TYPE	SIZE (mm ²)	CND	RECEIVE SIZE (mm ²)	TYPE	LENGTH (m)	
			3-φ	φ 18	φ 16	φ 14	AT	AF							P
1	PP1	93167	10	12118	123.92	1204	250	3	THHN	100 x 3	14.0	65	PVC		
2	PP2	101042	10	14017	140.17	254	250	3	THHN	100 x 3	14.0	65	PVC		
3	PP3	50064	10	65.18	66.45	67.21	254	125	3	THHN	38 x 3	10.0	50	PVC	
4	FIRE PUMP 3SHP	32831.5				250	250	2	THHN	30 x 3	10.0	38	PVC		
5	LOCKER PUMP 3SHP	2811				40	50	2	THHN	5.5 x 2	2.0	20	PVC		
6	CO					30	50	2	THHN	3.5 x 2	2.0	15	PVC		
7	LIGHTING					20	50	2	THHN	2.0 x 2	2.0	15	PVC		
8	SPARE					30	50	2	THHN				PVC		
TOTAL:		219,521.50	11.133	333.51	342.00	333.27									

DEMAND FACTOR : _____ %
 DEMAND LOAD : _____ Kva
 VOLTAGE DROP : _____ % @ length : _____ m
 WIRE SIZE : _____ Sq.mm
 IC = 10 + 1.732 (67.3) = 124.584
 @ 80 DF = 262.23 * 0.8 = 10.263
 IF = (101.26 + 20.27) + (1.25 * 20.27) = 106.334
 ICB = (209 - 20.27) + 50 = 134.994

MAIN BREAKER : 125 AT 125 AT 3 P 230 V
 FEEDER : THHN 100MM² X3 + E8 IN CABLE LADDER/DUCTBANK
 CALCULATION :

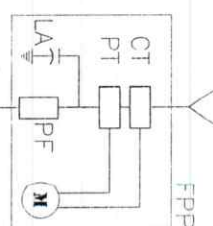
DEMAND FACTOR : _____ %
 DEMAND LOAD : _____ Kva
 VOLTAGE DROP : _____ % @ length : _____ m
 WIRE SIZE : _____ Sq.mm
 IC = 111.91 + 1.732 (342) = 104.274
 @ 80 DF = 553.42 * 0.8 = 553.42A
 IF = (553.42 + 145.63) + (1.25 * 145.63) = 600A
 ICB = (563.42 - 145.64) + 250 = 661.704

USE: 250MVA 13.8/230V, 3-Phase, 60Hz Oil Immersed Transformer, Ip = 10.45A, Ip = 627.57
 USE: 300MVA 230V, 3-Phase, 60Hz Sient Type Diesel Generator

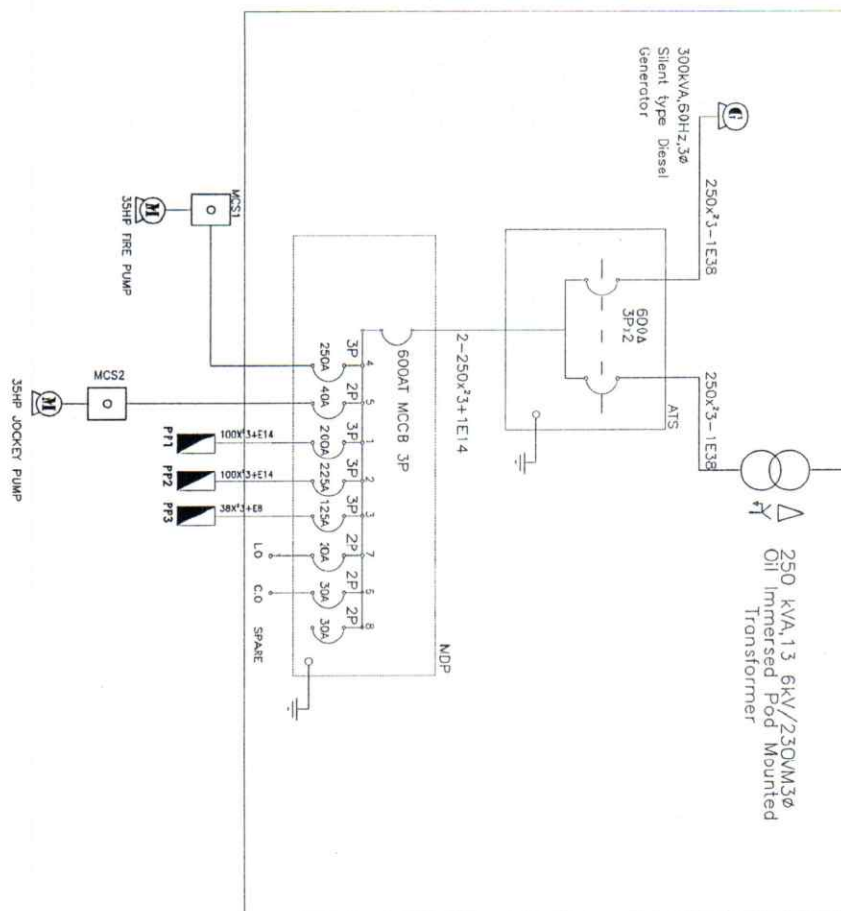
MAIN BREAKER : 600 AT 600 AT 3 P 230 V
 FEEDER : THHN 2-250 sqmm x 3 + E8 VIE DUCTBANK
 CALCULATION :

PREPARED BY : _____ ELECTRICAL ENGINEER
 CHECKED BY : _____
 JOMBONG STATE UNIVERSITY
POLANDON CRUZ
 JASON E. ALONSO
 APPROVED BY : _____
 NERMAN E. CATAYAN, MANUEL D. CRISTO
 PROJECT TITLE: **REHABILITATION AND FURNISHING OF OLD/EXISTING UNIVERSITY BUILDING**
 SHEET CONTENT: AS SHOWN
 CAD OPERATOR: BCGC / SLM
 JOB NO. : _____
 DATE : _____
 OFFICE OF PHYSICAL PLANT AND FACILITIES
 982999 1/4/21
 E-12

13 kV, 60Hz, 3P Incoming Telco Line



POWER HOUSE



ELECTRICAL NOTES :

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). THE RULES AND REGULATIONS OF THE PHILIPPINE ELECTRICAL CODE (PEC) SHALL BE OBSERVED 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, 60 HERTZ 5-5/10A.
3. THE INSTALLATION SHALL BE DONE AS FOLLOWS:
 - A. RIGID STEEL CONDUIT (RSC) - POWER SERVICE ENTRANCE FEEDERS
 - B. POLYETHYLENE CHLORIDE (PVC) - LIGHTING POWER BRANCH CIRCUITS AND AUXILIARY LAYOUT.
4. ALL WIRING TO BE USED SHALL BE COPPER AND THERMOPLASTIC HEAT INSULATED TYPE UNLESS OTHERWISE SPECIFIED.
5. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR THE LOCATION AND PURPOSES INTENDED.
6. THE MINIMUM SIZE OF WIRE AND CONDUIT TO BE USED SHALL BE 1.4mm THIN AND 2.0mm RESPECTIVELY.
7. WIRETRAY OR NECESSARY RAIL BOX SHALL BE PRODUCED EVEN NOT INDICATED BY THE PLAN.
8. BRANCH CIRCUIT HOMERUNS SHALL NOT BE COMBINED BY THE SAME RACEWAY AND RACEWAY CONTINUATION SHALL BE AS FOLLOWS:
 - a. 1.0m ABOVE FLOOR FINISH
 - b. 1.70m ABOVE FLOOR FINISH @ CENTER
 - c. LIGHT CONTROL SWITCH PANEL BOARDS
 - d. ALL OTHER HEIGHTS
9. ALL SERVICE ENTRANCE EQUIPMENTS SUCH AS PANELBOARD SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PROVISIONS OF THE PHILIPPINE ELECTRICAL CODE.
10. ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DUTY REGISTERED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

LEGEND:

- ⊙ CEILING LIGHT
- ⊙ PIN LIGHT
- ⊙ DUPLEX CONVENIENCE OUTLET
- ⊙ CIRCUIT BREAKER
- ⊙ SINGLE SWITCH IN ONE GANG INDICATING PATHS OF SWITCHES
- ⊙ DOUBLE SWITCH IN ONE GANG INDICATING PATHS OF SWITCHES
- ⊙ TRIPLE SWITCH IN ONE GANG INDICATING PATHS OF SWITCHES
- ⊙ LIGHTING AND POWER PANEL
- ⊙ CIRCUIT HOMERUN
- ⊙ SERVICE ENTRANCE
- ⊙ FLOURESCENT LAMP LOCATED IN THE INNER PART OF CEILING
- ⊙ AIR CONDITIONING UNIT INDICATING HORSEPOWER
- ⊙ KILOWATT-HOUR METER
- ⊙ LIGHTING OUTLET RACEWAY
- ⊙ CONVENIENCE OUTLET RACEWAY
- ⊙ SWITCH RACEWAY

PREPARED BY :

ROBILSON STATE UNIVERSITY

OFFICE OF PHYSICAL PLANT AND FACILITIES

ELECTRICAL ENGINEER

ROLANDON N. CRUZ

CHECKED BY :

JASON F. BRUNSON

PROJECT TITLE :

REHABILITATION AND FURNISHING OF OLD/EXISTING UNIVERSITY LIBRARY

SHEET CONTENT :

AS SHOWN

PREPARED BY :

CEO OPERATOR:

BSC / SIM

JOB NO. :

DEPT. :

B-13

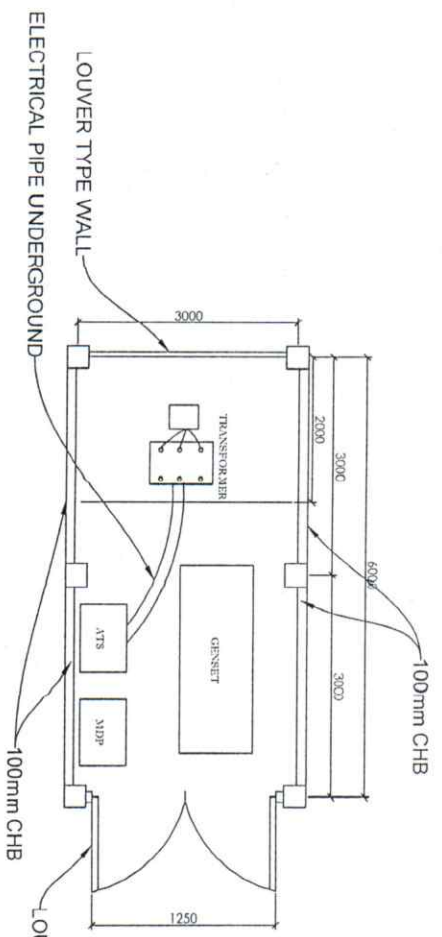
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DATE: 1/4/21

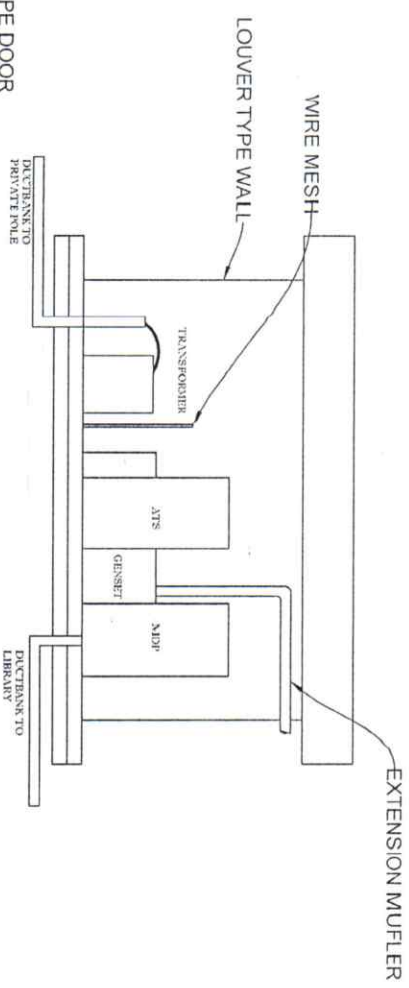
LOCATION: ROBILSON STATE UNIVERSITY - Main Campus, Linaoag, Ilocos Sur



1 ELEVATION PLAN
 SCALE 1:100



2 GROUND FLOOR PLAN
 SCALE 1:50



3 FRONT INTERIOR
 SCALE 1:50

PREPARED BY: ELECTRICAL ENGINEER
 CHECKED BY: PROJECT TITLE: REHABILITATION AND FURNISHING OF OLD/EXISTING UNIVERSITY BUILDING

ROMBLON STATE UNIVERSITY

ROLANDO N. CRUZ
 REGISTERED ELECTRICAL ENGINEER # 20022 REVISED BY

JANSON P. BAYRON
 PROJECT ENGINEER

OFFICE OF PHYSICAL PLANT AND FACILITIES

PROJECT NO. / DATE: 9819499 / 1/4/21
 PROJECT NAME: REHABILITATION AND FURNISHING OF OLD/EXISTING UNIVERSITY BUILDING

SEAL CONTENT: HS SHOWN

PREPARED BY: CAD OPERATOR: BCSC / SIM

JOB NO.:
 DATE:

E-14