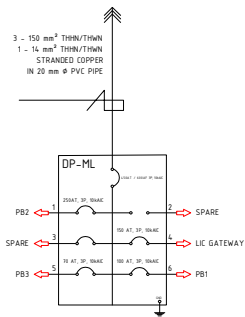


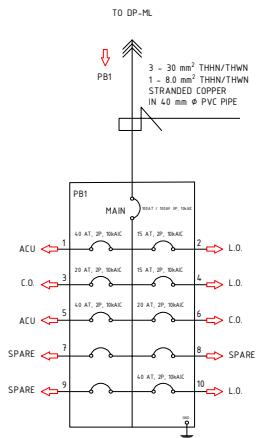
PANELBOARD ID: DP-ML
LOCATION: LRAC, EE ROOM



DP-ML																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN/THW			CONDUIT SPECIFICATION
	QTY.	Unit VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	51305	PB2	230	3Φ	51.31	75.52	75.48	72.07		250	250	3	3-150 mm2	-	1-8.0 mm2	90 mm Φ PVC
2	-	-	Spare	-	-	-	-	-	-		-	-	-	-	-	-	-
3	-	-	Spare	-	-	-	-	-	-		-	-	-	-	-	-	-
4	1	27295	LIC Gateway PBLG1 and PBLG2	230	3Φ	27.30	39.11	42.91	36.65		150	150	3	3-22 mm2	-	1-8.0 mm2	40 mm Φ PVC
5	1	14978	PB3	230	3Φ	14.98	23.82	15.03	22.93		70	100	3	3-14 mm2	-	1-8.0 mm2	32 mm Φ PVC
6	1	12574	PB1	230	3Φ	12.57	14.67	25.89	14.10		100	100	3	3-14 mm2	-	1-8.0 mm2	32 mm Φ PVC
TOTAL CURRENT PER PHASE							153.12	159.31	145.75		450	600	3	3-150 mm2	-	1-14 mm2	90 mm Φ PVC
TOTAL CONNECTED LOAD (VA) 106152			SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR: $IC = 125\% \text{ of HML} + [1.732 \times (125\% \text{ of HCNML} + H\Phi) \times 3\Phi] \times DF$								SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR: $IP = 250\% \times HCNML + [1.732 \times (125\% \text{ of HCNML} + H\Phi) \times 3\Phi] \times DF$						
TOTAL CURRENT (A) 458.18			$IC = 125 \times 75.52 + [1.732 \times (125 \times 23.82 + (159.31 - 23.82)) \times 0.80]$ IC = 323.39 Amperes								$IP = 2.5 \times 75.52 + [1.732 \times (1.25 \times 23.82 + (159.31 - 23.82)) \times 0.80]$ IP = 417.79 Amperes						
ENCLOSURE NEMA - 1			USE: 3-150 mm2 THHN/THWN, 1-14 mm2 THHN/THWN, Stranded, Copper, in 90 mm dia PVC								USE: 450AT/600AF, INVERSE TIME, 230 V, 3P						

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33 Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, whether executed partly in whole, without the written consent of architect or author of said documents.	PROJECT TITLE: LIBRARY RESOURCES AND ACTIVITY CENTER PROPOSED SCHEDULE OF LOADS	PROJECT OWNER: EE481 EEK2414 CAPSTONE 1	DRAWING CONTENTS	DESIGNED BY: TANO DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO APPROVED BY:	ISSUED FOR: <input type="checkbox"/> OWNER'S APPROVAL <input type="checkbox"/> AS-BUILT <input type="checkbox"/> BIDDING <input type="checkbox"/> BUILDING PERMIT <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> ESTIMATE <input type="checkbox"/> FABRICATION	REVISIONS: NO. DATE DESCRIPTION	DRAWING NO.
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY						

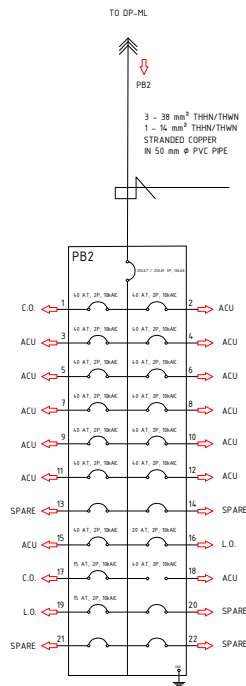
PANELBOARD ID: PB1
LOCATION: LRAC, WILDCATS LOUNGE



PB1																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT			CONDUIT SPECIFICATION
														COPPER WIRE, THHN/THWN			
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	3000	1 Wall-Mounted ACU	230	1Φ	3.00	13.04				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
2	33	375	26 Pin + 7 Tube Light	230	1Φ	0.38	1.63				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
3	10	2960	10 Convenience Outlets	230	1Φ	2.96			12.87		20	100	2	2-5.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
4	22	208	10 Hanging Light + 10 Pin + 2 Tube Light	230	1Φ	0.21			0.90		15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
5	2	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22			40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
6	9	2455	9 Convenience Outlets	230	1Φ	2.46		10.67			20	100	2	2-5.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
7	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	14	76	LED Strip Light + 3 Pin Lights	230	1Φ	0.08			0.33		15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
TOTAL CURRENT PER PHASE							14.67	25.89	14.10		100	100	3	3-30 mm2	-	1-8.0 mm2	40 mm Φ PVC
TOTAL CONNECTED LOAD (VA)			SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:										SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:				
12574			$IC = 125\% \text{ of HML} + [1.732 \times (125\% \text{ of HCNML} + H\Phi) + 3\Phi] \times DF$										$IP = 250\% \text{ of HML} + [1.732 \times (125\% \text{ of HCNML} + H\Phi) + 3\Phi] \times DF$				
TOTAL CURRENT (A)			$IC = 1.25 \times 15.22 + [1.732 \times (1.25 \times 26.4 + (25.89 - 26.4) + 0)] \times 0.80$										$IP = 2.5 \times 15.22 + [1.732 \times (1.25 \times 26.4 + (25.89 - 26.4) + 0)] \times 0.80$				
54.67			IC = 64.04 Amperes										IP = 83.07 Amperes				
ENCLOSURE NEMA - 1			USE: 3-30 mm2 THHN/THWN, 1-8.0 mm2 THHN/THWN, Stranded, Copper, in 40 mm dia PVC										USE: 100AT/100AF, INVERSE TIME, 230 V, 3P				

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF:	SEAL	R.A. 9266 Section 33 Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, whether executed partly in whole, without the written consent of architect or author of said documents.	PROJECT TITLE: LIBRARY RESOURCES AND ACTIVITY CENTER PROPOSED SCHEDULE OF LOADS	PROJECT OWNER: EE481 EEK2414 CAPSTONE 1	DRAWING CONTENTS	DESIGNED BY: TANO DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO APPROVED BY:	ISSUED FOR: <input type="checkbox"/> OWNER'S APPROVAL <input type="checkbox"/> AS-BUILT <input type="checkbox"/> BIDDING <input type="checkbox"/> BUILDING PERMIT <input type="checkbox"/> CONSTRUCTION <input type="checkbox"/> ESTIMATE <input type="checkbox"/> FABRICATION	REVISIONS: NO. DATE DESCRIPTION	DRAWING NO.
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY						

PANELBOARD ID: PB2
LOCATION: LRAC, EE ROOM



PB2																			
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SPECIFICATION		
														PHASE	NEUTRAL	EGC			
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE						
1	29	7030	29 Convenience Outlets	230	1Φ	7.03	30.57					40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
2	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	15.22					40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
3	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50			15.22			40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
4	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50			15.22			40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
5	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
6	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
7	1	3000	1 Wall-Mounted ACU	230	1Φ	3.00	13.04					40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
8	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	15.22					40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
9	1	3000	1 Wall-Mounted ACU	230	1Φ	3.00			13.04			40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
10	3	3000	1 Wall-Mounted ACU	230	1Φ	3.00			13.04			40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
11	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
12	3	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
13	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	1	3000	1 Wall-Mounted ACU	230	1Φ	3.00			13.04			40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
16	84	576	24 Tube Lights + 20 Pin Lights + 2 Recessed + 8 Hanging Lights + LED Strip Lights	230	1Φ	0.58			2.50			20	100	2	2-5.5 mm2	-	1-3.5 mm2	20 mm Φ PVC	
17	2	360	2 Convenience Outlets	230	1Φ	0.36		1.57				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC	
18	1	3000	1 Wall-Mounted ACU	230	1Φ	3.00		13.04				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
19	32	339	LED Strip Light + 2 Track Lights + 8 Pin Lights + 21 Tube Lights	230	1Φ	0.34	1.47					15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC	
20	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
21	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL CURRENT PER PHASE							75.52	75.48	72.07			250	250	3	3-38 mm2	-	1-14 mm2	50 mm Φ PVC	
TOTAL CONNECTED LOAD (VA) 51905			SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR: IC = 125% of HML + (1.732 x (125% of HCNML + HΦ) + 3Φ) x DF IC = 1.25 x 15.22 + (1.732 x (1.25 x 36.11 + (75.52 - 36.11)) + 0) x 0.80 IC = 136.17 Amperes									SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR: IP = 250% of HML + (1.732 x (125% of HCNML + HΦ) + 3Φ) x DF IP = 2.50 x 15.22 + (1.732 x (1.25 x 36.11 + (75.52 - 36.11)) + 0) x 0.80 IP = 155.20 Amperes							
TOTAL CURRENT (A) 223.07																			
ENCLOSURE NEMA - 1			USE: 3-38 mm2 THHN/THWN, 1-14 mm2 THHN/THWN, Stranded, Copper, in 50 mm dia PVC									USE: 250AT/250AF, INVERSE TIME, 230 V, 3P							

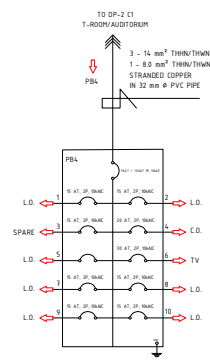
CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A 9266 Section 33 Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of said and for other projects of building, whether executed partly in whole, without the written consent of architect or author of said documents.	PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:	DRAWING NO.	
				LIBRARY RESOURCES AND ACTIVITY CENTER	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024	<input type="checkbox"/> OWNERS APPROVAL	NO.	DATE	DESCRIPTION
				PROPOSED SCHEDULE OF LOADS			DATE UPDATED: 09-15-2024	<input type="checkbox"/> AS-BUILT			
							DRAFTED BY: RAS OBISO	<input type="checkbox"/> BIDDING			
							APPROVED BY:	<input type="checkbox"/> BUILDING PERMIT			
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				<input type="checkbox"/> CONSTRUCTION			
								<input type="checkbox"/> ESTIMATE			
								<input type="checkbox"/> FABRICATION	PROJECT CODE:		

[illegible]

PB3																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT			CONDUIT SPECIFICATION
														COPPER WIRE, THHN/THWN			
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	16	4975	8 Convenience Outlets	230	1Φ	4.98	2163				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
2	21	230	15 Pin Lights + 2 Twin Track Lights + 4 Tube Lights	230	1Φ	1.00	1.00				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
3	9	4040	9 Convenience Outlets	230	1Φ	4.04			17.57		40	100	2	2-8.0 mm2		1-5.5 mm2	25 mm Φ PVC
4	25	300	25 Pin Light	230	1Φ	0.30			1.30		15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
5	1	1600	7 Convenience Outlet	230	1Φ	1.60		6.96			20	100	2	2-5.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
6	88	84.8	67 Tube Lights + 5 Pin Lights + 7 Hanging Lights + 8 Recessed + LED Strip Light	230	1Φ	0.85		3.69			15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
7	4	120	4 Exhaust Fans	230	1Φ	0.12	0.52				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
8	6	57	5 Tube Lights + 1 Pin Light	230	1Φ	0.06	0.25				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
9	25	300	25 Pin Light	230	1Φ	0.30			1.30		15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
10	23	258	14 Pin Lights + 6 Tube Lights + 3 Recessed	230	1Φ	0.26			1.12		15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
11	52	597	43 Pin Lights + 9 Tube Lughts	230	1Φ	0.60		2.60			15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
12	32	412	31 Pin Lights + LED Strip Lights	230	1Φ	0.41		1.79			15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
13	3	54	2 Track Lights + LED Strip	230	1Φ	0.05	0.23				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
14	2	42	1 Pin Light + 1 Exhaust Fan	230	1Φ	0.04	0.18				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
15	27	234	17 Pin Lights + 1 Exhaust Fan	230	1Φ	0.23		1.02			15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
16	13	141	8 Pin Lights + 5 Tube Lights	230	1Φ	0.14			0.61		15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
				TOTAL CURRENT PER PHASE			23.82	15.03	22.93		70	100	3	3-14 mm2		1-8.0 mm2	32 mm Φ PVC
TOTAL CONNECTED LOAD (VA) 14978.00			SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR: IC = 125% of HML + (1732 x (125% of HCMPL + HO) ÷ 3Φ) x DF							SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR: IP = 250% of HML + (1732 x (125% of HCMPL + HO) ÷ 3Φ) x DF							
TOTAL CURRENT (A) 6177			IC = 125 x 0 + (1732 x (125 x 6177 + (23.82 - 6177))) ÷ 0] x 0.80 IC = 54.40 Amperes							IP = 250 x 0 + (1732 x (125 x 6177 + (23.82 - 6177))) ÷ 0] x 0.80 IP = 54.40 Amperes							
ENCLOSURE NEMA - 1			USE: 3-14 mm2 THHN/THWN, 1-8.0 mm2 THHN/THWN, Stranded, Copper, in 32 mm dia PVC							USE: 70AT/100AF, INVERSE TIME, 230 V, 3P							

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R A 9286 Section 33 <div>Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, whether executed partly in whole, without the written consent of architect or author of said documents.</div>	PROJECT TITLE : LIBRARY RESOURCES AND ACTIVITY CENTER PROPOSED SCHEDULE OF LOADS	PROJECT OWNER: EE481 EEK2414 CAPSTONE 1	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:	DRAWING NO.	
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY			DATE DRAFTED: 09-04-2024	<input type="checkbox"/> OWNER'S APPROVAL	NO.	DATE	DESCRIPTION
							DATE UPDATED: 09-05-2024	<input type="checkbox"/> AS-BUILT			
							DRAFTED BY: RAS OBISO	<input type="checkbox"/> BIDDING			
							APPROVED BY:	<input type="checkbox"/> BUILDING PERMIT			
								<input type="checkbox"/> CONSTRUCTION			
								<input type="checkbox"/> ESTIMATE			
								FABRICATION		PROJECT CODE:	

PANELBOARD ID: PB4
LOCATION: LRAC, ACTIVITY CENTER

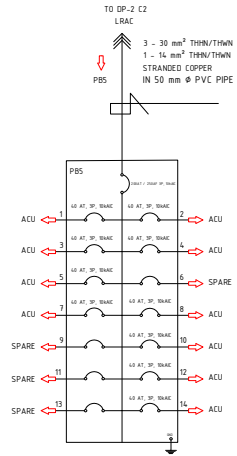


PB4																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SPECIFICATION
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	48	576	48 Recessed Lights	230	1Φ	0.58	2.50				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
2	30	360	30 Recessed Lights	230	1Φ	0.36	1.57				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
3	4	76	3 Pin Lights + LED Strip Light	230	1Φ	0.08			0.33		15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
4	6	1565	6 Convenience Outlets	230	1Φ	1.57			6.80		20	100	2	2-5.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
5	-	-	Spare	-	-	-	-	-	-	-	-	100	-	-	-	-	-
6	18	2700	18 LED TVs	230	1Φ	2.70		11.74			30	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
7	30	494	2 Orbit Fans + 27 Recessed Lights + LED Strip Light	230	1Φ	0.49	2.15				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
8	12	164	12 Recessed Lights	230	1Φ	0.16	0.63				15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
9	8	96	8 Pin Lights	230	1Φ	0.10			0.42		15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
10	10	110	8 Pin Lights + 2 Track Lights	230	1Φ	0.11			0.48		15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
TOTAL CURRENT PER PHASE							6.84	11.74	8.03		70	100	3	3-14 mm2	-	1-8.0 mm2	32 mm Φ PVC
TOTAL CONNECTED LOAD (VA)		6121	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:								SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:						
			IC = 125% of HML + [1.732 x (125% of HCNML + HΦ) + 3Φ] x DF								IP = 250% of HML + [1.732 x (125% of HCNML + HΦ) + 3Φ] x DF						
TOTAL CURRENT (A)		26.61	IC = 1.25 x 0 + [(1.732 x (1.25 x 26.61 + (11.74 - 26.61)) + 0)] x 0.80								IP = 2.5 x 0 + [1.732 x (1.25 x 26.61 + (11.74 - 26.61)) + 0] x 0.80						
			IC = 25.48 Amperes								IP = 25.48 Amperes						
ENCLOSURE NEMA - 1			USE: 3-14 mm2 THHN/THWN, 1-8.0 mm2 THHN/THWN, Stranded, Copper, in 32 mm dia PVC								USE: 70AT/100AF, INVERSE TIME, 230 V, 3P						

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				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY						

PANELBOARD ID: PB5
LOCATION: THE LEARNING PATIO, BESIDE LINK GROUND FLOOR

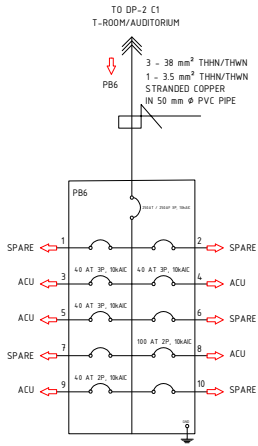
PB5																		
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT			CONDUIT SPECIFICATION	
														COPPER WIRE, THHN/THWN				
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	40	100	3	3-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
2	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	40	100	3	3-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
3	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	40	100	3	3-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
4	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	40	100	3	3-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
5	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	40	100	3	3-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
6	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	40	100	3	3-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
8	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	40	100	3	3-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
9	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	40	100	3	3-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
11	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22			40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
13	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	15.22				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
				TOTAL CURRENT PER PHASE			15.22	15.22	0.00	121.74	200	250	3	3-30 mm2	-	1-14 mm2	50 mm Φ PVC	
TOTAL CONNECTED LOAD (VA) 35000			SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR: $IC = 125\% \text{ of HML} + [1.732 \times (125\% \text{ of HCNML} + H\Phi)] \times DF$										SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR: $IP = CB \text{ of HML} + [1.732 \times (125\% \text{ of HCNML} + H\Phi)] \times DF$					
TOTAL CURRENT (A) 152.17			$IC = 125 \times 15.22 + [1.732 \times (125 \times 0 + (15.22 - 0))] + 121.74 \times 0.80$										$IP = 40 + [1.732 \times (125 \times 0 + (15.22 - 0))] + 121.74 \times 0.80$					
			IC = 118.48 Amperes										IP = 158.48 Amperes					
ENCLOSURE NEMA - 1			USE: 3-30 mm2 THW, 1-14 mm2 THHN/THWN, Stranded, Copper, in 50 mm dia PVC										USE: 200AT/250AF, INVERSE TIME, 230 V, 3P					



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				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				PROJECT CODE:		

PANELBOARD ID: PB6
LOCATION: LRAC, ACTIVITY CENTER BACKDOOR

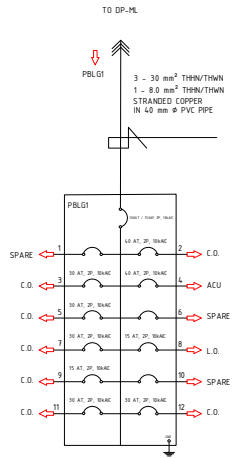
PB6														
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			CONDUIT SPECIFICATION
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	
1	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-
2	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-
3	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50	-	-	-	15.22	40	100	3	3-8.0 mm2
4	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50	-	-	-	15.22	40	100	3	3-8.0 mm2
5	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50	-	-	-	15.22	40	100	3	3-8.0 mm2
6	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-
7	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-
8	2	7000	2 Floor-Mounted ACU	230	3Φ	7.00	-	-	-	30.43	100	100	3	3-14 mm2
9	1	1200	SSO ACU	230	1Φ	1.20	-	-	5.22	40	100	2	2-8.0 mm2	1-5.5 mm2
10	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-
TOTAL CURRENT PER PHASE							0.00	0.00	5.22	76.09	250	250	3	3-38 mm2
TOTAL CONNECTED LOAD (VA)							SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:				SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:			
18700							$I_C = 125\% \text{ of HML} + [1732 \times (125\% \text{ of HCNML} + H\Phi)] \times DF$				$IP = [CB \text{ of HML} + [1732 \times (125\% \text{ of HCNML} + H\Phi)] \times DF$			
TOTAL CURRENT (A)							$I_C = 125 \times 30.43 + [1732 \times (125 \times 0 + (5.22 - 0))] + 76.09 \times 0.80$				$IP = 100 + [1732 \times (125 \times 0 + (5.22 - 0))] + 76.09 \times 0.80$			
8130							$I_C = 106.14 \text{ Amperes}$				$IP = 168.14 \text{ Amperes}$			
ENCLOSURE NEHA - 1							USE: 3-38 mm2 THHN/THWN, 1-14 mm2 THHN/THWN, Stranded, Copper, in 50 mm dia PVC				USE: 250AT/250AF, INVERSE TIME, 230 V, 3P			



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				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY					PROJECT CODE:	

PANELBOARD ID: PBLG1
LOCATION: LRAC, LIC GATEWAY

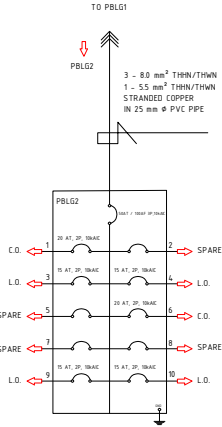
PBLG1																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SPECIFICATION
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	9	4450	9 Convenience Outlets	230	1Φ	4.45	19.35	-	-	-	40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
3	16	3750	16 Convenience Outlets + 2 Orbit Fans	230	1Φ	3.75	-	-	16.30	-	30	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
4	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	-	-	15.22	-	40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
5	6	2880	6 Convenience Outlets	230	1Φ	2.88	-	12.52	-	-	30	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
6	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	6	3180	6 Convenience Outlets	230	1Φ	3.18	13.83	-	-	-	30	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
8	8	75	1 Recessed + 7 Tube Lights	230	1Φ	0.08	0.33	-	-	-	15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
9	2	510	2 Convenience Outlets	230	1Φ	0.51	-	-	2.22	-	15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
10	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	7	2910	7 Convenience Outlets	230	1Φ	2.91	12.65	-	-	-	30	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
12	8	2790	8 Convenience Outlets	230	1Φ	2.79	12.13	-	-	-	30	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
TOTAL CURRENT PER PHASE							33.50	37.30	33.74	-	150	150	3	3-30 mm2	-	1-8.0 mm2	40 mm Φ PVC
TOTAL CONNECTED LOAD (VA) 24045			SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR: IC = 125% of HML + (1.732 x (125% of HCNML + HØ) + 3Ø) x DF										SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR: IP = 250% of HML + (1.732 x (125% of HCNML + HØ) + 3Ø) x DF				
TOTAL CURRENT (A) 104.54			IC = 1.25 x 15.22 + (1.732 x (1.25 x 76.35 + (37.74 - 76.35) + 0) x 0.80 IC = 97.77 Amperes										IP = 2.50 x 15.22 + (1.732 x (1.25 x 76.35 + (37.74 - 76.35) + 0) x 0.80 IP = 116.79 Amperes				
ENCLOSURE NEMA - 1			USE: 3-30 mm2 THHN/THWN, 1-8.0 mm2 THHN/THWN, Stranded, Copper, in 40 mm dia PVC										USE: 150AT/150AF, INVERSE TIME, 230 V, 3P				



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				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				PROJECT CODE:		

PANELBOARD ID: PBLG2
LOCATION: LRAC, LIC GATEWAY

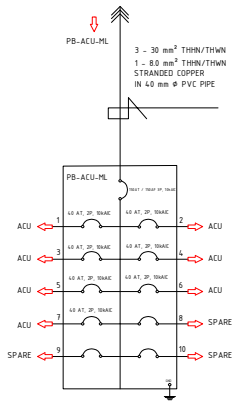
PBLG2																		
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SPECIFICATION	
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	20	1290	3 Convenience Outlets	230	1Φ	1.29	5.61					20	100	2	2-5.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
2	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	16	192	16 Pin Lights	230	1Φ	0.19			0.83			15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
4	20	150	9 Pin Lights + 11 Tube Lights	230	1Φ	0.15			0.65			15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
5	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	20	1290	3 Convenience Outlets	230	1Φ	1.29		5.61				20	100	2	2-5.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
7	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	9	136	8 Pin Lights + LED Strip Lights	230	1Φ	0.14			0.59			15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
10	16	192	16 Pin Lights	230	1Φ	0.19			0.83			15	100	2	2-3.5 mm2	-	1-3.5 mm2	20 mm Φ PVC
				TOTAL CURRENT PER PHASE			5.61	5.61	2.91			50	100	3	3-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC
TOTAL CONNECTED LOAD (VA)		SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:									SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:							
3250		$IC = 125\% \text{ of HML} + \{1.732 \times (125\% \text{ of HCNML} + H\Phi) + 3\Phi\} \times DF$									$IP = 250\% \text{ of HML} + \{1.732 \times (125\% \text{ of HCNML} + H\Phi) + 3\Phi\} \times DF$							
TOTAL CURRENT (A)		$IC = 1.25 \times 0 + \{1.732 \times (1.25 \times 14.13 + \{5.61 - 14.13\} + 0)\} \times 0.80$									$IP = 2.50 \times 0 + \{1.732 \times (1.25 \times 14.13 + \{5.61 - 14.13\} + 0)\} \times 0.80$							
14.13		IC = 12.67 Amperes									IP = 12.67 Amperes							
ENCLOSURE NEMA - 1		USE: 3-8.0 mm2 THHN/THWN, 1-5.5 mm2 THHN/THWN, Stranded, Copper, in 25 mm dia PVC									USE: 50AT/100AF, INVERSE TIME, 230 V, 3P							



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				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY					PROJECT CODE:	

PANELBOARD ID: PB-ACU-ML

PB-ACU-ML																		
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SPECIFICATION	
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	15.22				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
2	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	15.22				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
3	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50			15.22		40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
4	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50			15.22		40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
5	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22			40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
6	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22			40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
7	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	15.22				40	100	2	2-8.0 mm2	-	1-5.5 mm2	25 mm Φ PVC	
8	-	-	Spare	-	-	-	-	-	-	-	100	-	-	-	-	-	-	
9	-	-	Spare	-	-	-	-	-	-	-	100	-	-	-	-	-	-	
10	-	-	Spare	-	-	-	-	-	-	-	100	-	-	-	-	-	-	
TOTAL CURRENT PER PHASE							45.65	30.43	30.43	0.00	150	150	3	3-30 mm2	-	1-8.0 mm2	40 mm Φ PVC	
TOTAL CONNECTED LOAD (VA) 24500			SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR: $IC = 125\% \text{ of HML} + (1.732 \times (125\% \text{ of HCNML} + H0)) \times DF$										SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR: $IP = CB \text{ of HML} + (1.732 \times (125\% \text{ of HCNML} + H0)) \times DF$					
TOTAL CURRENT (A) 106.52			$IC = 125 \times 15.22 + (1.732 \times (125 \times 0 + (45.65 - 0)) \times 0.80$ $IC = 83.46 \text{ Amperes}$										$IP = 100 + (1.732 \times (125 \times 0 + (45.65 - 0)) \times 0.80$ $IP = 104.43 \text{ Amperes}$					
ENCLOSURE NEMA - 1			USE: 3-30 mm2 THHN/THWN, 1-8.0 mm2 THHN/THWN, Stranded, Copper, in 40 mm dia PVC										USE: 150AT/150AF, INVERSE TIME, 230 V, 3P					



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				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				PROJECT CODE:		