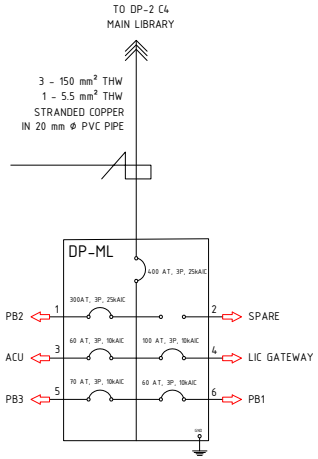
PANELBOARD ID: DP-ML
LOCATION: LRAC, EE ROOM



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	54545	PB2	230	3Φ	54.55	59.88	77.27	86.96		300	-	3	3-150 mm2	-	1-5.5 mm2	63 mm Φ PVC
2	-	-	Spare	-	-	-	-	-	-		-	-	-	-	-	-	63 mm Φ PVC
3	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50	0.00	0.00	15.22		60	-	3	3-5.5 mm2	-	1-5.5 mm2	63 mm Φ PVC
4	1	30659	LIC Gateway PBLG1 and PBLG2	230	3Φ	30.66	41.20	43.00	49.09		100	-	3	3-22 mm2	-	1-5.5 mm2	63 mm Φ PVC
5	1	18780.35	PB3 + 2 Convenience Outlets	230	3Φ	18.78	28.94	37.54	8.57		70	-	3	3-5.5 mm2	-	1-5.5 mm2	63 mm Φ PVC
6	1	15438	PB1	230	3Φ	15.44	4.04	0.00	63.08		60	-	3	3-22 mm2	-	1-5.5 mm2	63 mm Φ PVC
TOTAL CURRENT PER PHASE							134.06	157.81	222.92		400	-	3	3-150 mm2	-	1-5.5 mm2	63 mm Φ PVC

TOTAL CONNECTED LOAD (VA)	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:	SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:
122922.35	IC = 125% of HML + [1.732 x (125% of HCNML + HΦ) + 3Φ] x DF	IP = 250% x HCNML + [1.732 x (125% of HCNML + HΦ) + 3Φ] x DF
TOTAL CURRENT (A)	IC = 1.25 x 86.96 + [(1.732 x 222.92 } + 0] x 0.80	IP = 2.5 x 86.96 + [(1.732 x 222.92 } + 0] x 0.80
514.79	IC = 417.58 Amperes	IP = 526.28 Amperes
ENCLOSURE NEMA - 1	USE: 3-150 mm2 THW, Stranded, Copper, in 63 mm dia PVC	USE: 400 AT, 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, wether executed partly in whole, without the written consent of architect or author of said documents.

PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS
LIBRARY RESOURCES AND ACTIVITY CENTER SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1	
LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		

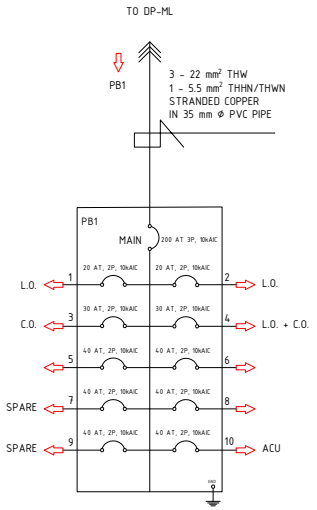
DESIGNED BY: TANO
DATE DRAFTED: 09-04-2024
DATE UPDATED: 09-15-2024
DRAFTED BY: RAS OBISO
APPROVED BY:

ISSUED FOR:
☐ OWNER'S APPROVAL
☐ AS-BUILT
☐ BIDDING
☐ BUILDING PERMIT
☐ CONSTRUCTION
☐ ESTIMATE
☐ FABRICATION

REVISIONS:		
NO.	DATE	DESCRIPTION
PROJECT CODE:		

DRAWING NO.

PANELBOARD ID: PB1
LOCATION: LRAC, WILDCATS LOUNGE

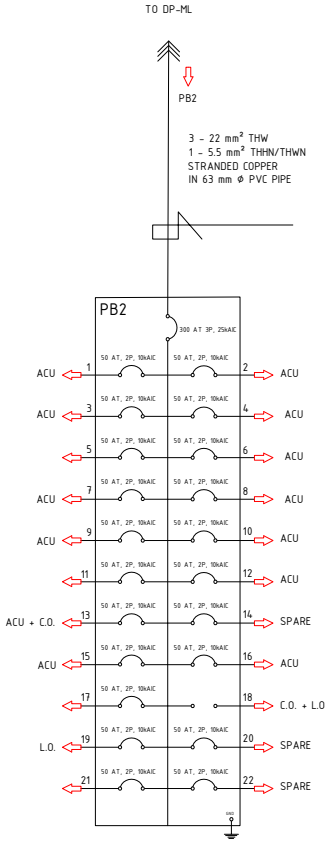


PB1																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SPECIFICATION
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	33	531	26 Pin + 7 Tube Light	230	1Φ	0.53	2.31				20	-	2	2-3.5 mm2	-	-	35 mm Φ PVC
2	22	398	10 Hanging Light + 10 Pin + 2 Tube Light	230	1Φ	0.40	1.73				20	-	2	2-3.5 mm2	-	-	20 mm Φ PVC
3	9	2455	9 Convenience Outlets	230	1Φ	2.46			10.67		30	-	2	2-3.5 mm2	-	-	35 mm Φ PVC
4	14	5554	LED Strip Light + 3 Pin Lights + 10 Convenience Outlets	230	1Φ	5.55			24.15		30	-	2	2-3.5 mm2	-	-	35 mm Φ PVC
5			No Connected Load	230	1Φ	0.00		0.00			40	-	2	2-5.5 mm2	-	-	35 mm Φ PVC
6			No Connected Load	230	1Φ	0.00		0.00			40	-	2	2-5.5 mm2	-	-	35 mm Φ PVC
7	-	-	Spare	-	-	-	-	-	-	-	40	-	2	-	-	-	35 mm Φ PVC
8			No Connected Load	230							40	-	2	2-3.5 mm2		-	35 mm Φ PVC
9	-	-	Spare	-	-	-	-	-	-	-	40	-	-	-	-	-	35 mm Φ PVC
10	2	6500	1 Floor-Mounted ACU + 1 Wall-Mounted ACU	230	1Φ	6.50			28.26		40	-	2	2-5.5 mm2	-	-	35 mm Φ PVC
TOTAL CURRENT PER PHASE							4.04	0.00	63.08		200	-	3	3-22 mm2	-	-	35 mm Φ PVC

TOTAL CONNECTED LOAD (VA)	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:	SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:
15438	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)	IC = 1.25 x 28.26 + [1.732 x (1.25 x 28.12 + (63.08 - 28.12)) + 0] x 0.80	IP = 2.5 x 28.26 + [1.732 x (1.25 x 28.12 + (63.08 - 28.12)) + 0] x 0.80
67.12	IC = 132.47 Amperes	IP = 167.79 Amperes
ENCLOSURE NEMA - 1	USE: 3-22 mm2 THW, Stranded, Copper, in 35 mm dia PVC	USE: 200 AT, INVERSE TIME, 230 V, 3P

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33	PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:			DRAWING NO.
			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, wether executed partly in whole, without the written consent of architect or author of said documents.	LIBRARY RESOURCES AND ACTIVITY CENTER SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024	☐ OWNER'S APPROVAL	NO.	DATE	DESCRIPTION	
							DATE UPDATED: 09-15-2024	☐ AS-BUILT				
							DRAFTED BY: RAS OBISO	☐ BIDDING				
							APPROVED BY:	☐ BUILDING PERMIT				
								☐ CONSTRUCTION				
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				☐ ESTIMATE				
								☐ FABRICATION	PROJECT CODE:			

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
	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				50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
2	1	3000	1 Wall-Mounted ACU	230	1Φ	3.00						-			-	-	50 mm Φ PVC
3	1	3000	1 Wall-Mounted ACU	230	1Φ	3.00			13.04		50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
4	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50			15.22		50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
5			No Connected Load	230	1Φ	0.00		0.00			50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
6	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22			50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
7	1	3000	1 Wall-Mounted ACU	230	1Φ	3.00	13.04				50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
8	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	15.22				50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
9	1	3000	1 Wall-Mounted ACU	230	1Φ	3.00			13.04		50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
10	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50			15.22		50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
11			No Connected Load	230	1Φ	0.00		0.00			50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
12	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22			50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
13	3	3360	1 Wall-Mounted ACU + 2 Convenience Outlets	230	1Φ	3.36	14.61				50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
14	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50			15.22		50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
16	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50			15.22		50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
17				230	1Φ	0.00		0.00			50	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
18	84	10772	24 Tube Lights + 20 Pin Lights + 2 Recessed + 8 Hanging Lights + 29 Convenience Outlets + LED Strip Lights	230	1Φ	10.77		46.83			50	-	2	2-5.5 mm2 1-1.25 mm2 (DUPLEX SPT-2 Flat Cord)	-	-	50 mm Φ PVC
19	32	413	LED Strip Light + 2 Track Lights + 8 Pin Lights + 21 Tube Lights	230	1Φ	0.41	1.80				50	-	2	2-3.5 mm2	-	-	50 mm Φ PVC
20	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21			No Connected Load	230	1Φ	0.00			0.00		50	-	2	2-8.0 mm2	-	-	50 mm Φ PVC
22	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	50 mm Φ PVC
			TOTAL CURRENT PER PHASE				59.88	77.27	86.96		300	-	3	3-22 mm2 THW	-	-	63 mm Φ PVC

TOTAL CONNECTED LOAD (VA)	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:	SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:
54545	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)	IC = 1.25 x 15.22 + [1.732 x (1.25 x 19.68 + (86.96 - 19.68)) + 0] x 0.80	IP = 2.50 x 15.22 + [1.732 x (1.25 x 19.68 + (86.96 - 19.68)) + 0] x 0.80
224.11	IC = 146.33 Amperes	IP = 165.36 Amperes
ENCLOSURE NEMA - 1	USE: 3-22 mm2 THW, Stranded, Copper, in 63 mm dia PVC	USE: 300 AT, 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, wether executed partly in whole, without the written consent of architect or author of said documents.

PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS
LIBRARY RESOURCES AND ACTIVITY CENTER SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1	
LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		

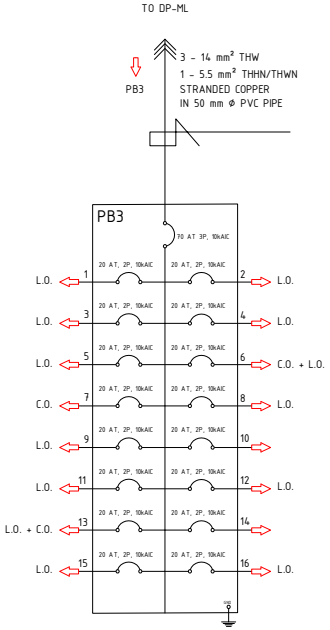
DESIGNED BY: TANO
DATE DRAFTED: 09-04-2024
DATE UPDATED: 09-15-2024
DRAFTED BY: RAS OBISO
APPROVED BY:

ISSUED FOR:
☐ OWNER'S APPROVAL
☐ AS-BUILT
☐ BIDDING
☐ BUILDING PERMIT
☐ CONSTRUCTION
☐ ESTIMATE
☐ FABRICATION

REVISIONS:		
NO.	DATE	DESCRIPTION
PROJECT CODE:		

DRAWING NO.

PANELBOARD ID: PB3
LOCATION: LRAC, EE ROOM



PB3																	
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	25	450	25 Pin Lights	230	1Φ	0.45	1.96				20	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
2	13	189	8 Pin Lights + 5 Tube Lights	230	1Φ	0.19	0.82				20	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
3	32	598	31 Pin Lights + LED Strip Lights	230	1Φ	0.60			2.60		20	-	2	2-5.5 mm2	-	-	50 mm Φ PVC
4	52	855	43 Pin Lights + 9 Tube Lughts	230	1Φ	0.86			3.72		20	-	2	2-3.5 mm2	-	-	50 mm Φ PVC
5	6	63	5 Tube Lights + 1 Pin Light	230	1Φ	0.06		0.27			20	-	2	2-3.5 mm2	-	-	50 mm Φ PVC
6	16	7775	4 Exhaust Fans + 12 Convenience Outlets	230	1Φ	7.78		33.80			20	-	2	2-3.5 mm2	-	-	50 mm Φ PVC
7	1	180	1 Convenience Outlet	230	1Φ	0.18	0.78				20	-	2	2-3.5 mm2	-	-	50 mm Φ PVC
8	88	1017	67 Tube Lights + 5 Pin Lights + 7 Hanging Lights + 8 Recessed + LED Strip Light	230	1Φ	1.02	4.42				20	-	2	2-3.5 mm2	-	-	50 mm Φ PVC
9	23	360	14 Pin Lights + 6 Tube Lights + 3 Recessed	230	1Φ	0.36			1.57		20	-	2	2-3.5 mm2	-	-	32 mm Φ PVC
10			No Connected Load	230	1Φ	0.00			0.00		20	-	2	2-5.5 mm2	-	-	32 mm Φ PVC
11	21	346	15 Pin Lights + 2 Twin Track Lights + 4 Tube Lights	230	1Φ	1.50		1.50			20	-	2	2-3.5 mm2	-	-	32 mm Φ PVC
12	25	450	25 Pin Light	230	1Φ	0.45		1.96			20	-	2	2-5.5 mm2	-	-	32 mm Φ PVC
13	27	4821	17 Pin Lights + 1 Exhaust Fan + 9 Convenience Outlets	230	1Φ	4.82	20.96				20	-	2	2-3.5 mm2	-	-	32 mm Φ PVC
14			No Connected Load	230	1Φ	0.00	0.00				20	-	2	2-5.5 mm2	-	-	32 mm Φ PVC
15	2	78	1 Pin Light + 1 Exhaust Fan	230	1Φ	0.08			0.34		20	-	2	2-5.5 mm2	-	-	32 mm Φ PVC
16	3	80	2 Track Lights + LED Strip	230	1Φ	0.08			0.35		20	-	2	2-3.5 mm2	-	-	32 mm Φ PVC
			TOTAL CURRENT PER PHASE				28.94	37.54	8.57		70	-	3	3-14 mm2 THW		-	50 mm Φ PVC

TOTAL CONNECTED LOAD (VA)	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:	SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:
18420.35	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)	IC = 1.25 x 0 + [1.732 x (1.25 x 50.4 + (37.54 - 50.4)) + 0] x 0.80	IP = 2.50 x 0 + [1.732 x (1.25 x 50.4 + (37.54 - 50.4)) + 0] x 0.80
75.05	IC = 69.47 Amperes	IP = 69.47 Amperes
ENCLOSURE NEMA - 1	USE: 3-14 mm2 THW, Stranded, Copper, in 50 mm dia PVC	USE: 70 AT, INVERSE TIME, 230 V, 3P

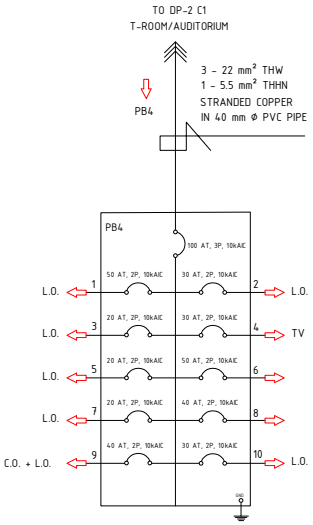
CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33
			Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is 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, wether executed partly in whole, without the written consent of architect or author of said documents.

PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS
LIBRARY RESOURCES AND ACTIVITY CENTER SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1	
LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		

DESIGNED BY: TANO
DATE DRAFTED: 09-04-2024
DATE UPDATED: 09-15-2024
DRAFTED BY: RAS OBISO
APPROVED BY:

ISSUED FOR:	REVISIONS:			DRAWING NO.
☐ OWNER'S APPROVAL	NO.	DATE	DESCRIPTION	
☐ AS-BUILT				
☐ BIDDING				
☐ BUILDING PERMIT				
☐ CONSTRUCTION				
☐ ESTIMATE				
☐ FABRICATION	PROJECT CODE:			

PANELBOARD ID: PB4
LOCATION: LRAC, ACTIVITY CENTER

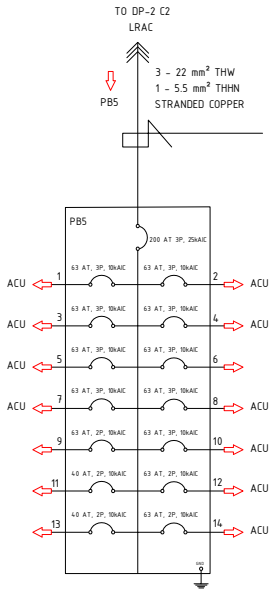


PB4																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SPECIFICATION
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	48	864	48 Recessed Lights	230	1Φ	0.86	3.76				50	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
2	30	656	2 Orbit Fans + 27 Recessed Lights + LED Strip Light	230	1Φ	0.66	2.85				30	-	2	2-5.5 mm2	-	-	20 mm Φ PVC
3	30	540	30 Recessed Lights	230	1Φ	0.54			2.35		20	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
4	18	2700	18 LED TVs	230	1Φ	2.70			11.74		30	-	2	2-3.5 mm2	-	-	20 mm Φ PVC
5	12	216	12 Recessed Lights	230	1Φ	0.22		0.94			20	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
6			No Connected Load	230	1Φ	0.00		0.00			50	-	2	2-8.0 mm2	-	-	20 mm Φ PVC
7	8	144	8 Pin Lights	230	1Φ	0.14	0.63				20	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
8			No Connected Load	230	1Φ	0.00	0.00				40	-	2		-	-	20 mm Φ PVC
9	10	1659	3 Pin Lights + LED Strip Light + 6 Convenience Outlets	230	1Φ	1.66			7.21		40	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
												-				-	
10	10	184	8 Pin Lights + 2 Track Lights	230	1Φ	0.18			0.80		30	-	2	2-5.5 mm2	-	-	20 mm Φ PVC
TOTAL CURRENT PER PHASE							7.23	0.94	22.10		100	-	3	3-22 mm2 THW		-	40 mm Φ PVC

TOTAL CONNECTED LOAD (VA)	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:	SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:
6963	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)	IC = 1.25 x 0 + [1.732 x (1.25 x 27.12 + (22.10 - 27.12)) + 0] x 0.80	IP = 2.5 x 0 + [1.732 x (1.25 x 27.12 + (22.10 - 27.12)) + 0] x 0.80
30.27	IC = 40.02 Amperes	IP = 40.02 Amperes
ENCLOSURE	USE: 3-22 mm2 THW, Stranded, Copper, in 40 mm dia PVC	USE: 100 AT, INVERSE TIME, 230 V, 3P
NEMA - 1		

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33	PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:			DRAWING NO.
			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, wether executed partly in whole, without the written consent of architect or author of said documents.	LIBRARY RESOURCES AND ACTIVITY CENTER SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024	OWNER'S APPROVAL	NO.	DATE	DESCRIPTION	
							DATE UPDATED: 09-15-2024	AS-BUILT				
							DRAFTED BY: RAS OBISO	BIDDING				
							APPROVED BY:	BUILDING PERMIT				
								CONSTRUCTION				
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				ESTIMATE				
								FABRICATION	PROJECT CODE:			

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 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	3Φ	3.50				15.22	63	-	3	3-5.5 mm2	-	1-2.0 mm2	-
2	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	63	-	3	3-8.0 mm2	-	1-2.0 mm2	-
3	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	63	-	3	3-8.0 mm2	-	1-2.0 mm2	-
4	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	63	-	3	3-8.0 mm2	-	1-2.0 mm2	-
5	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	63	-	3	6-5.5 mm2	-	1-2.0 mm2	-
6			No Connected Load	230	3Φ	0.00				0.00	63	-	3	2-5.5 mm2	-	1-2.0 mm2	-
7	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	63	-	3	3-8.0 mm2	-	1-2.0 mm2	-
8	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	63	-	3	3-8.0 mm2	-	1-2.0 mm2	-
9			No Connected Load	230	3Φ	0.00				0.00	63	-	3	6-5.5 mm2	-	1-2.0 mm2	-
10	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	63	-	3	3-8.0 mm2		1-2.0 mm2	-
11			No Connected Load	230	1Φ	0.00		0.00			40	-	2	2-5.5 mm2		1-2.0 mm2	-
12	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50		15.22			63	-	2	2-5.5 mm2	-	1-2.0 mm2	-
13			No Connected Load	230	1Φ	0.00	0.00				40	-	2	2-5.5 mm2	-	1-2.0 mm2	-
14	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	15.22				63	-	2	2-5.5 mm2	-	1-2.0 mm2	-
TOTAL CURRENT PER PHASE							15.22	15.22	0.00	121.74	200	-	3	3-22 mm2	-	1-2.0 mm2	-

TOTAL CONNECTED LOAD (VA)	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:	SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:
35000	IC = 125% of HML + [1.732 x (125% of HCNML + HΦ)] x DF	IP = CB of HML + [1.732 x (125% of HCNML + HΦ)] x DF
TOTAL CURRENT (A)	IC = 1.25 x 15.22 + [1.732 x (1.25 x 0 + (121.74 - 0))] x 0.80	IP = 63 + [1.732 x (1.25 x 0 + (121.74 - 0))] x 0.80
152.17	IC = 187.65 Amperes	IP = 231.63 Amperes
ENCLOSURE NEMA - 1	USE: 3-22 mm2 THW, 1-2.0 mm2 THHN/THWN, Stranded, Copper	USE: 200 AT, INVERSE TIME, 230 V, 3P

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33
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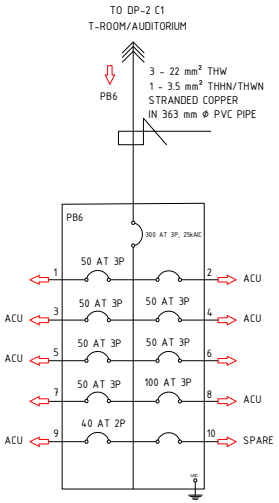
PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS
LIBRARY RESOURCES AND ACTIVITY CENTER SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1	
LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		

DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:			DRAWING NO.
DATE DRAFTED: 09-04-2024	☐ OWNER'S APPROVAL	NO.	DATE	DESCRIPTION	
DATE UPDATED: 09-15-2024	☐ AS-BUILT				
DRAFTED BY: RAS OBISO	☐ BIDDING				
APPROVED BY:	☐ BUILDING PERMIT				
	☐ CONSTRUCTION				
	☐ ESTIMATE				
	☐ FABRICATION	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			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SPECIFICATION
	QTY.	VA	Description				AB	BC	CA	ΦABC	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1			No Connected Load	230	3Φ	0.00				0.00	50	-	3	2-14 mm2	-	1-3.5 mm2	63 mm Φ PVC
2	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	50	-	3	2-8.0 mm2	-	1-3.5 mm2	63 mm Φ PVC
4	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	50	-	3	2-8.0 mm2	-	1-3.5 mm2	63 mm Φ PVC
5	1	3500	1 Floor-Mounted ACU	230	3Φ	3.50				15.22	50	-	3	2-8.0 mm2	-	1-3.5 mm2	63 mm Φ PVC
6			No Connected Load	230	3Φ	0.00				0.00	50	-	3	2-8.0 mm2	-	1-3.5 mm2	63 mm Φ PVC
7			No Connected Load	230	3Φ	0.00				0.00	50	-	3	2-8.0 mm2	-	1-3.5 mm2	63 mm Φ PVC
8	2	7000	2 Floor-Mounted ACU	230	3Φ	7.00				30.43	100	-	3	4-5.5 mm2	-	1-3.5 mm2	63 mm Φ PVC
9	1	1200	SSO ACU	230	1Φ	1.20			5.22		40	-	2	2-5.5 mm2	-	1-3.5 mm2	63 mm Φ PVC
10	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL CURRENT PER PHASE							0.00	0.00	5.22	76.09	300	-	3	3-22 mm2 THW		1-3.5 mm2	63 mm Φ PVC

TOTAL CONNECTED LOAD (VA)	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR:	SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR:
18700	IC = 125% of HML + [1.732 x (125% of HCNML + HΦ)] x DF	IP = CB of HML + [1.732 x (125% of HCNML + HΦ)] x DF
TOTAL CURRENT (A)	IC = 1.25 x 30.43 + [1.732 x (1.25 x 0 + (76.09 - 0))] x 0.80	IP = 100 + [1.732 x (1.25 x 0 + (76.09 - 0))] x 0.80
81.30	IC = 143.47 Amperes	IP = 205.43 Amperes
ENCLOSURE	USE: 3-22 mm2 THW, Stranded, Copper, in 63 mm dia PVC	USE: 300 AT, INVERSE TIME, 230 V, 3P
NEMA - 1		

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33
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PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS
LIBRARY RESOURCES AND ACTIVITY CENTER SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1	
LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		

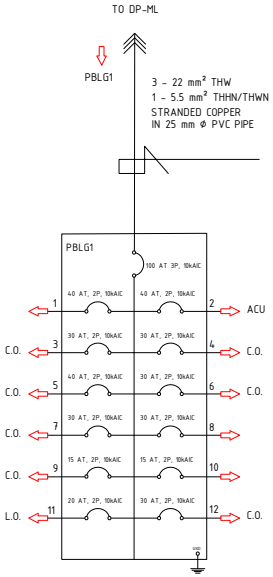
DESIGNED BY: TANO
DATE DRAFTED: 09-04-2024
DATE UPDATED: 09-15-2024
DRAFTED BY: RAS OBISO
APPROVED BY:

ISSUED FOR:
☐ OWNER'S APPROVAL
☐ AS-BUILT
☐ BIDDING
☐ BUILDING PERMIT
☐ CONSTRUCTION
☐ ESTIMATE
☐ FABRICATION

REVISIONS:		
NO.	DATE	DESCRIPTION
PROJECT CODE:		

DRAWING NO.

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			No Connected Load	230	1Φ	0.00	0.00				40	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
2	1	3500	1 Floor-Mounted ACU	230	1Φ	3.50	15.22				40	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
3	9	4670	9 Convenience Outlets	230	1Φ	4.67			20.30		30	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
4	8	5640	8 Convenience Outlets	230	1Φ	5.64			24.52		30	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
5	6	3180	6 Convenience Outlets	230	1Φ	3.18		13.83			40	-	2	4-5.5 mm2	-	-	25 mm Φ PVC
6	6	2880	6 Convenience Outlets	230	1Φ	2.88		12.52			30	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
7	7	2910	7 Convenience Outlets	230	1Φ	2.91	12.65				30	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
8			No Connected Load	230	1Φ	0.00	0.00				30	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
9	2	510	2 Convenience Outlets	230	1Φ	0.51			2.22		15	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
10			No Connected Load	230	1Φ	0.00			0.00		15	-	2	2-5.5 mm2	-	-	25 mm Φ PVC
11	8	81	1 Recessed + 7 Tube Lights	230	1Φ	0.08		0.35			20	-	2	2-5.5 mm2	-	-	15 mm Φ PVC
12	16	3750	14 Convenience Outlets + 2 Orbit Fans	230	1Φ	3.75		16.30			30	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
			TOTAL CURRENT PER PHASE				27.87	43.00	47.04		100	-	3	3-22 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:
27121	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)	IC = 1.25 x 15.22 + [1.732 x (1.25 x 36.30 + (47.04 - 36.30)) + 0] x 0.80	IP = 2.50 x 15.22 + [1.732 x (1.25 x 36.30 + (47.04 - 36.30)) + 0] x 0.80
117.92	IC = 96.78 Amperes	IP = 115.80 Amperes
ENCLOSURE NEMA - 1	USE: 3-22 mm2 THW, Stranded, Copper, in 25 mm dia PVC	USE: 100 AT, INVERSE TIME, 230 V, 3P

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL

R.A. 9266 Section 33

PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS
LIBRARY RESOURCES AND ACTIVITY CENTER SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1	
LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		

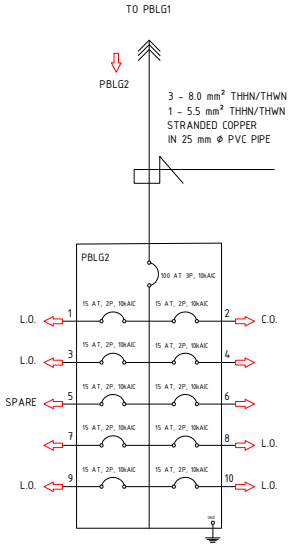
DESIGNED BY: TANO
DATE DRAFTED: 09-04-2024
DATE UPDATED: 09-15-2024
DRAFTED BY: RAS OBISO
APPROVED BY:

ISSUED FOR:
- ☐ OWNER'S APPROVAL
- ☐ AS-BUILT
- ☐ BIDDING
- ☐ BUILDING PERMIT
- ☐ CONSTRUCTION
- ☐ ESTIMATE
- ☐ FABRICATION

REVISIONS:		
NO.	DATE	DESCRIPTION
PROJECT CODE:		

DRAWING NO.

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	198	9 Pin Lights + 11 Tube Lights	230	1Φ	0.20	0.86				15	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
2	6	2580	6 Convenience Outlets	230	1Φ	2.58	11.22				15	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
3	8	144	8 Pin Lights	230	1Φ	0.14			0.63		15	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
4			No Connected Load	230	1Φ	0.00			0.00		15	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
5	-	-	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	25 mm Φ PVC
6			No Connected Load	230	1Φ	0.00		0.00			15	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
7			No Connected Load	230	1Φ	0.00	0.00				15	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
8	16	288	16 Pin Lights	230	1Φ	0.29	1.25				15	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
9	9	184	8 Pin Lights + LED Strip Lights	230	1Φ	0.18			0.80		15	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
10	8	144	8 Pin Lights	230	1Φ	0.14			0.63		15	-	2	2-3.5 mm2	-	-	25 mm Φ PVC
TOTAL CURRENT PER PHASE							13.33	0.00	2.05		100	-	3	3-8.0 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:
3538	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)	IC = 1.25 x 0 + [1.732 x (1.25 x 9.55 + (13.33 - 9.55)) + 0] x 0.80	IP = 2.50 x 0 + [1.732 x (1.25 x 9.55 + (13.33 - 9.55)) + 0] x 0.80
15.38	IC = 21.78 Amperes	IP = 21.78 Amperes
ENCLOSURE	USE: 3-8.0 mm2 THHN/THWN, Stranded, Copper, in 25 mm dia PVC	USE: 100 AT, INVERSE TIME, 230 V, 3P
NEMA - 1		

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33	PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:			DRAWING NO.
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							DATE UPDATED: 09-15-2024	☐ AS-BUILT				
							DRAFTED BY: RAS OBISO	☐ BIDDING				
							APPROVED BY:	☐ BUILDING PERMIT				
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				☐ CONSTRUCTION				
								☐ ESTIMATE				
								☐ FABRICATION	PROJECT CODE:			