

PB-SAL-GF																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	21	2458	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 10 x CONVENIENCE OUTLET	230	SINGLE	2.46	10.69			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2	19	2098	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 8 x CONVENIENCE OUTLET	230	SINGLE	2.10	9.12			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	20	2278	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 9 x CONVENIENCE OUTLET	230	SINGLE	2.28			9.90	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4	20	2278	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 9 x CONVENIENCE OUTLET	230	SINGLE	2.28			9.90	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5	17	1738	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 6 x CONVENIENCE OUTLET	230	SINGLE	1.74		7.56		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6	12	1180	1 x 48" TUBE LIGHT + 8 x 24" TUBE LIGHT 3 x CONVENIENCE OUTLET	230	SINGLE	1.18		5.13		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
7	15	195	6 x 24" TUBE LIGHT + 6 x LIGHT BULB + 3 x LED STRIP LIGHT	230	SINGLE	0.20	0.85			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
8	15	135	15 x LIGHT BULB	230	SINGLE	0.14	0.59			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
9			SPARE										-	-	-	-
10			SPARE										-	-	-	-
11			SPARE										-	-	-	-
12			SPARE										-	-	-	-
TOTAL CURRENT IN EACH PHASE (AMPERES)							21.24	12.69	19.81							
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										45	100	3	3-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
TOTAL CURRENT IN AMPERES		53.74	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR								SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR					
TOTAL CONNECTED LOAD VA		12360	IC = 125% of HML + (1.732 x (125% of HCNL + HD) + 30) x DF IC = 1.25 x 1.41 + [(1.732 x (1.25 x 20.94 + 21.24 - 20.94))] + 0) x 0.8 IC = 38.09 Amperes								IP = 250% HML + (1.732 x (125% of HCL + HD) + 30) x DF IP = 2.5 x 1.41 + [(1.732 x (1.25 x 20.94 + 21.24 - 20.94))] + 0) x 0.8 IP = 39.50 Amperes					
ENCLOSURE		NEMA - 1	USE: 3-8.0 mm2 THHN/THWN, Stranded, Copper								USE: 45 AT, INVERSE TIME, 230V, 3P					

PB - PRINCIPAL'S OFFICE (PO)																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3000	ACU	230	SINGLE	3.00	13.04			30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
2	3	195	3 x ORBIT FAN	230	SINGLE	0.20	0.85			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
4	1	3000	ACU	230	SINGLE	3.00			13.04	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
5	6	4200	6 x CONVENIENCE OUTLET	230	SINGLE	4.20		18.26		20	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
6	10	368	6 x 48" TUBE LIGHT + 4 x LIGHT BULB	230	SINGLE	0.37		1.60		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
TOTAL CURRENT IN EACH PHASE (AMPERES)							13.89	19.86	19.53							
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										80	100	3	3-14.0 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
TOTAL CURRENT IN AMPERES		53.28	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR								SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR					
TOTAL CONNECTED LOAD VA		12255	IC = 125% of HML + (1.732 x (125% of HCNL + HD) + 30) x DF IC = 1.25 x 13.04 + [(1.732 x (1.25 x 5.37 + 32.15 - 5.37)) + 0] x 0.8 IC = 59.45 Amperes								IP = 250% HML + (1.732 x (125% of HCL + HD) + 30) x DF IP = 2.5 x 13.04 + [(1.732 x (1.25 x 5.37 + 32.15 - 5.37)) + 0] x 0.8 IP = 72.49 Amperes					
ENCLOSURE		NEMA - 1	USE: 3-14.0 mm2 THHN/THWN, Stranded, Copper								USE: 80 AT, INVERSE TIME, 230V, 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:	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:	DRAWING NO.
				DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO	<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	NO. DATE DESCRIPTION	
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY			APPROVED BY:			

PB - REGISTRAR'S OFFICE (RO)																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT				CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	COPPER WIRE, THHN/THWN				
													PHASE	NEUTRAL	EGG		
1	10	168	8 x FLUORESCENT LIGHT + 2 x LIGHT BULB	230	SINGLE	0.17	0.73			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
2	20	4185	10 x CONVENIENCE OUTLET	230	SINGLE	4.19	18.20			20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
3	4	260	4 x ORBIT FAN	230	SINGLE	0.26			1.13	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
4	1	3000	ACU	230	SINGLE	3.00			13.04	30	100	2	2-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
5	10	5254	10 x CONVENIENCE OUTLET	231	SINGLE	5.25		22.84		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
6			SPARE														
TOTAL CURRENT IN EACH PHASE (AMPERES)							18.93	22.84	14.17								
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										100	100	3	3-22.0 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE	
TOTAL CURRENT IN AMPERES		55.94	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR														
TOTAL CONNECTED LOAD VA		7613	IC = 125% of HML + (1.732 x (125% of HCNL + HØ) + 3Ø) x DF IC = 1.25 x 13.04 + [(1.732 x (1.25 x 40.55 + 41.77 - 40.55))] x 0.80 IC = 84.96 Amperes														
ENCLOSURE		NEMA - 1	USE: 3-22.0 mm2 THHN/THWN, Stranded, Copper														
			SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HØ) + 3Ø) x DF IP = 2.5 x 13.04 + [(1.732 x (1.25 x 40.55 + 41.77 - 40.55))] x 0.80 IP = 98.00 Amperes														
			USE: 100 AT, INVERSE TIME, 230V, 3P														

PB-SAL-R163																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN				CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGG		
1	1	1492	ACU	230	SINGLE	1.49	6.49			30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
2			SPARE														
3	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
4			SPARE														
5			SPARE														
6	12	1541	12 x 48" TUBE LIGHT + 1 x ORBIT FAN	230	SINGLE	1.54		6.70		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
TOTAL CURRENT IN EACH PHASE (AMPERES)							6.49	6.70	6.49								
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																	
										35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE	
TOTAL CURRENT IN AMPERES		19.67	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR														
			IC = 125% of HML + (1.732 x (125% of HCNL + HØ) + 3Ø) x DF IC = 1.25 x 6.49 + [(1.732 x (1.25 x 1.49 + 12.97 - 1.49))] + 0] x 0.80 IC = 24.98 Amperes														
TOTAL CONNECTED LOAD VA		4525	IP = 250% HML + (1.732 x (125% of HCL + HØ) + 3Ø) x DF IP = 2.5 x 6.49 + [(1.732 x (1.25 x 1.49 + 12.97 - 1.49))] + 0] x 0.80 IP = 31.47 Amperes														
ENCLOSURE		NEMA - 1	USE: 3-3.5 mm2 THHN/THWN, Stranded, Copper										USE: 35 AT, INVERSE TIME, 230V, 3P				

MDP SAL																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	13815	PB-SAL-4F	230	THREE	13.82	22.04	22.04	15.98	80	100	3	3-22 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
2	1	10360	PB-SAL-3F	230	THREE	10.36	13.32	14.80	16.92	60	100	3	3-14 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
3	1	20710	PB-SAL-2F	230	THREE	20.71	34.88	26.50	28.66	100	100	3	3-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
4	1	11400	PB-SAL-GE	230	THREE	11.40	21.24	12.69	19.81	45	100	3	3-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
5	1	12255	PB-RO	230	THREE	12.26	18.93	22.84	14.17	100	100	3	2-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
6	1	7613	PB-PO	230	THREE	7.61	13.89	19.86	19.53	80	100	3	2-22 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
7	1	4525	PB-SAL-R163	230	THREE	4.53	6.49	6.70	6.49	35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
8	1	4525	PB-SAL-R164	230	THREE	4.53	6.70	6.49	6.49	35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
9	1	4525	PB-SAL-R165	230	THREE	4.53	6.70	6.49	6.49	40	100	3	3-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
10	1	3000	ACU 2ND FLOOR	230	SINGLE	3.00			13.04	30	100	2	2-5.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	20 mmØ PVC PIPE
11	1	3000	ACU 2ND FLOOR	230	SINGLE	3.00				30	100	2	2-5.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	20 mmØ PVC PIPE
12			SPARE													
TOTAL CURRENT IN EACH PHASE (AMPERES)							144.19	151.45	147.59							
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										175	250	3	3-50.0 mm2 THW	-	1-14 mm2 THHN/THWN	65 mmØ PVC PIPE
TOTAL CURRENT IN AMPERES		443.23	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR													
TOTAL CONNECTED LOAD VA		95728	IC = 125% of HML + (1.732 x (125% of HCNL + HØ) + 3Ø) x DF IP = 1.25 x 12 + [(1.732 x (1.25 x 111.13 + 65.30 - 111.13))] + 0] x 0.80 IC = 140.98 Amperes													
ENCLOSURE		NEMA - 1	USE: 3-50.0 mm2 THW, Stranded, Copper													
			SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HØ) + 3Ø) x DF IP = 2.5 x 12 + [(1.732 x (1.25 x 111.13 + 65.30 - 111.13))] + 0] x 0.73 IP = 152.98 Amperes													
			USE: 175 AT, INVERSE TIME, 230V, 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:	PROJECT OWNER:	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.
				DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1					
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY						

PB-SAL-R164																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	13	1541	12 x 48" TUBE LIGHT + 1 x ORBIT FAN + 7 x CONVENIENCE OUTLET	230	SINGLE	1.54	6.70			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2			SPARE											-	-	-
3	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
4			SPARE											-	-	-
5			SPARE											-	-	-
6	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
TOTAL CURRENT IN EACH PHASE (AMPERES)																
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																
TOTAL CURRENT IN AMPERES		19.67		COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + HD) + 3Ø) x DF IC = 1.25 x 6.49 + [(1.732 x (1.25 x 2.09 + 13.20 - 2.09))] x 0.80 IC = 25.50 Amperes						SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HD) + 3Ø) x DF IP = 2.5 x 6.49 + [(1.732 x (1.25 x 2.09 + 13.20 - 2.09))] x 0.80 IP = 31.99 Amperes						
TOTAL CONNECTED LOAD VA		4525														
ENCLOSURE		NEMA - 1		USE: 3-3.5 mm2 THHN/THWN, Stranded, Copper						USE: 3S AT, INVERSE TIME, 230V, 3P						

PB-SAL-R165																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1			SPARE											-	-	-
2	11	1541	12 x 48" TUBE LIGHT + 1 x ORBIT FAN + 11 x CONVENIENCE OUTLET	230	SINGLE	1.54	6.70			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3			SPARE											-	-	-
4	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
5	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
6			SPARE											-	-	-
TOTAL CURRENT IN EACH PHASE (AMPERES)																
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																
TOTAL CURRENT IN AMPERES		19.67		COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + HD) + 3Ø) x DF IC = 1.25 x 6.49 + [(1.732 x (1.25 x 1.48 + 15.65 - 1.48))] x 0.80 IC = 28.69 Amperes						SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HD) + 3Ø) x DF IP = 2.5 x 6.49 + [(1.732 x (1.25 x 1.48 + 15.65 - 1.48))] x 0.80 IP = 35.18 Amperes						
TOTAL CONNECTED LOAD VA		4525														
ENCLOSURE		NEMA - 1		USE: 3-3.5 mm2 THHN/THWN, Stranded, Copper						USE: 4Ø AT, INVERSE TIME, 230V, 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:	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:	DRAWING NO.
				DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO	<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	NO. DATE DESCRIPTION	
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY			APPROVED BY:			

PB-SAL-2F																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1		999	2 x 48" TUBE LIGHT + 7 x 24" TUBE LIGHT + 1 x LIGHT BULB + 5 x CONVENIENCE OUTLET	230	SINGLE	1.00	4.34			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2		2206	3 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x LIGHT BULB + 10 x CONVENIENCE OUTLET	230	SINGLE	2.21	9.59			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3		1513	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 6 x CONVENIENCE OUTLET	230	SINGLE	1.51			6.58	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4		1873	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 8 x CONVENIENCE OUTLET	230	SINGLE	1.87			8.14	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5		117	2 x 48" TUBE LIGHT + 6 x 24" TUBE LIGHT + 3 x LIGHT BULB	230	SINGLE	0.12		0.51		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6		2053	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 9 x CONVENIENCE OUTLET	230	SINGLE	2.05		8.93		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
7		2764	5 x 48" TUBE LIGHT + 5 x ORBIT FAN + 1 x LIGHT BULB + 13 x CONVENIENCE OUTLET	230	SINGLE	2.76	12.02			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
8		2053	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 9 x CONVENIENCE OUTLET	230	SINGLE	2.05	8.93			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
9		1873	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 8 x CONVENIENCE OUTLET	230	SINGLE	1.87			8.14	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
10		1333	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 5 x CONVENIENCE OUTLET	230	SINGLE	1.33			5.80	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
11		1873	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 8 x CONVENIENCE OUTLET	230	SINGLE	1.87		8.14		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
12		2053	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 9 x CONVENIENCE OUTLET	230	SINGLE	2.05		8.93		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
TOTAL CURRENT IN EACH PHASE (AMPERES)							34.88	26.50	28.66	100	-	3	3-22.0 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																
TOTAL CURRENT IN AMPERES			90.04	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + HD) ÷ 30) x DF IC = 1.25 x 15.10 + [(1.732 x (1.25 x 21.8 + 41.74 - 21.8)) ÷ 0] x 0.80 IC = 80.49 Amperes							SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HD) ÷ 30) x DF IP = 2.5 x 15.1 + [(1.732 x (1.25 x 21.8 + 41.74 - 21.8)) ÷ 0] x 0.80 IP = 95.59 Amperes					
TOTAL CONNECTED LOAD VA			20710													
ENCLOSURE			NEMA - 1	USE: 3-22.0 mm2 THHN/THWN, Stranded, Copper							USE: 100 AT, INVERSE TIME, 230V, 3P					

PB-SAL-3F																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE	
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
2	13	144	3 x 48" TUBE LIGHT + 10 x 24" TUBE LIGHT	230	SINGLE	0.14	0.63			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
3	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
4	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
5	15	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 4 x CONVENIENCE OUTLET	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
6	8	486	3 x 48" TUBE LIGHT + 5 x 24" TUBE LIGHT	230	SINGLE	0.49		2.11		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
7	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
8	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
9	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
10	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
11	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
12	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
TOTAL CURRENT IN EACH PHASE (AMPERES)							13.32	14.80	16.92	60	100	3	3-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE	
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																	
TOTAL CURRENT IN AMPERES		45.04	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + HD) ÷ 30) x DF IC = 1.25 x 7.73 + [(1.732 x (1.25 x 27.04 + 22.51 - 27.04)) ÷ 0] x 0.8 IC = 48.29 Amperes							SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HD) ÷ 30) x DF IP = 2.5 x 7.73 + [(1.732 x (1.25 x 27.04 + 22.51 - 27.04)) ÷ 0] x 0.8 IP = 56.02 Amperes							
TOTAL CONNECTED LOAD VA		10360															
ENCLOSURE		NEMA - 1	USE: 3-8.0 mm2 THHN/THWN, Stranded, Copper							USE: 60 AT, INVERSE TIME, 230V, 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 or whole, without the written consent of architect or author of said documents.	PROJECT TITLE:	PROJECT OWNER:	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.
				DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1					
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY					PROJECT CODE:	

PB-SAL-4F																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE	
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1		2998	10 x 48" TUBE LIGHT + 17 x 24" TUBE LIGHT + 5 x ORBIT FAN + 13 x CONVENIENCE OUTLET	230	SINGLE	3.00	13.03			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
2		126	2 x 48" TUBE LIGHT + 10 x 24" TUBE LIGHT	230	SINGLE	0.13	0.55			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
3		576	2 x 48" TUBE LIGHT + 3 x CONVENIENCE OUTLET	230	SINGLE	0.58			2.50	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
4		1153	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 4 x CONVENIENCE OUTLET	230	SINGLE	1.15			5.01	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
5		2998	10 x 48" TUBE LIGHT + 17 x 24" TUBE LIGHT + 5 x ORBIT FAN + 13 x CONVENIENCE OUTLET	230	SINGLE	3.00		13.03		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
6		126	4 x 48" TUBE LIGHT + 6 x 24" TUBE LIGHT	230	SINGLE	0.13		0.55		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
7		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
8		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
9		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
10		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
11		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
12		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
TOTAL CURRENT IN EACH PHASE (AMPERES)																	
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																	
											80	100	3	3-22.0 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	22 mmØ PVC PIPE
TOTAL CURRENT IN AMPERES		60.07		COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR						SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR							
TOTAL CONNECTED LOAD VA		13815		IC = 125% of HML + (1.732 x (125% of HCNL + HD) + 3Ø) x DF IC = 1.25 x 2.83 + [(1.732 x (1.25 x 26.73 + 43.16 - 26.73)) + 0] x 0.80 IC = 71.89 Amperes						IP = 250% HML + (1.732 x (125% of HCL + HD) + 3Ø) x DF IP = 2.5 x 2.83 + [(1.732 x (1.25 x 26.73 + 43.16 - 26.73)) + 0] x 0.80 IP = 74.72 Amperes							
ENCLOSURE		NEMA - 1		USE: 3-22.0 mm2 THHN/THWN, Stranded, Copper						USE: 80 AT, INVERSE TIME, 230V, 3P							

PB - BASEMENT																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1		180	5 x 48" TUBE LIGHT + 10 x LIGHT BULB	230	SINGLE	0.18	0.78			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2		342	9 x 48" TUBE LIGHT + 1 x CONVENIENCE OUTLET	230	SINGLE	0.34	1.49			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3		342	9 x 48" TUBE LIGHT + 1 x CONVENIENCE OUTLET	230	SINGLE	0.34			1.49	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4		522	9 x 48" TUBE LIGHT + 2 x CONVENIENCE OUTLET	230	SINGLE	0.52			2.27	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5			SPARE							15	100		2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6		2223	10 x 48" TUBE LIGHT + 7 x HANGING LIGHT + 11 x CONVENIENCE OUTLET	230	SINGLE	2.22		9.67		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
7		360	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 1 x CONVENIENCE OUTLET	230	SINGLE	0.36	1.57			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
8		540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 2 x CONVENIENCE OUTLET	230	SINGLE	0.54	2.35			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
9		1440	20 x 48" TUBE LIGHT + 7 x CONVENIENCE OUTLET	230	SINGLE	1.44			6.26	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
10			SPARE							15	100		2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
11		540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 2 x CONVENIENCE OUTLET	230	SINGLE	0.54	2.35			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
12		360	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 1 x CONVENIENCE OUTLET	230	SINGLE	0.36	1.57			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
TOTAL CURRENT IN EACH PHASE (AMPERES)							10.10	9.67	10.02							
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										150	150	3	3-30 mm2 THHN/THWN	-	1-14.0 mm2 THHN/THWN	-
TOTAL CURRENT IN AMPERES		29.78			COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR					SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR						
TOTAL CONNECTED LOAD VA		6849			IC = 125% of HML + (1.732 x (125% of HCNL + HD) + 3Ø) x DF IC = 1.25 x 27.17 + [(1.732 x (1.25 x 67.44 + 36.83 - 67.44)) + 0] x 0.8 IC = 101.56 Amperes					IP = 250% HML + (1.732 x (125% of HCL + HD) + 3Ø) x DF IP = 2.5 x 27.17 + [(1.732 x (1.25 x 67.44 + 36.83 - 67.44)) + 0] x 0.8 IP = 128.73 Amperes						
ENCLOSURE		NEMA - 1			USE: 3-30 mm2 THHN/THWN, 1-2.0 mm2, Stranded, Copper					USE: 150 AT, INVERSE TIME, 230V, 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:	PROJECT OWNER:	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.
				DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY	EE481 EEK2414 CAPSTONE 1					

PB-07																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN				CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	1	3500	ACU-LINK-276	230	SINGLE	3.50				30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
2			SPARE	230	SINGLE	0.00	15.22									15 mmØ PVC PIPE	
3	1	3500	ACU-LINK-275	230	SINGLE	3.50			15.22	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
4	1	3500	ACU-LINK-274	230	SINGLE	3.50			15.22	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
5	1	3500	ACU-LINK-273	230	SINGLE	3.50		15.22		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
6	1	3500	ACU-LINK-275	230	SINGLE	3.50		15.22		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
7	1	3500	ACU-LINK-274	230	SINGLE	3.50	15.22			30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
8			SPARE	230	SINGLE	0.00	0.00			30	100	2				15 mmØ PVC PIPE	
9	1	3500	ACU-LINK-273	230	SINGLE	3.50			15.22	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
10	1	3500	ACU-LINK-276	230	SINGLE	3.50			15.22	30	100		2-5.5 mm2 THHN/THWN		1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
11	1	3500	ACU-LINK-GF	230	SINGLE	3.50		15.22		30	100		2-5.5 mm2 THHN/THWN		1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
12	1	3500	ACU-LINK-GF	230	SINGLE	3.50		15.22		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
TOTAL CURRENT IN EACH PHASE (AMPERES)								30.43	60.87	60.87							
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																	
										125	125	3	3-30 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-	
TOTAL CURRENT IN AMPERES				152.17	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR												
TOTAL CONNECTED LOAD VA				35000	IC = 125% of HML + (1.732 x (125% of HCL + HD) + 30) x DF IP = 250% of HML + (1.732 x (125% of HCL + HD) + 30) x DF IP = 1.25 x 15.22 + [(1.732 x (1.25 x 0 + 60.87 - 0)) x 0.80] IC = 99.56 Amperes IP = 114.78 Amperes												
ENCLOSURE				NEMA - 1	USE: 3-30 mm2 THHN/THWN, 1-2.0 mm2, Stranded, Copper							USE: 125 AT, INVERSE TIME, 230V, 3P					

DP-LINK-3F																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	24240	PB - LINK3F - R373	230	SINGLE	24.24	32.09	38.35	34.96	110	125	2	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
2	1	24240	PB - LINK3F - R374	230	SINGLE	24.24	32.09	39.13	34.17	110	125	2	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
3	1	24240	PB - LINK3F - R375	230	SINGLE	24.24	31.30	38.35	33.39	110	125	2	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
4	1	24240	PB - LINK3F - R376	230	SINGLE	24.24	31.30	37.57	34.96	110	125	2	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
TOTAL CURRENT IN EACH PHASE (AMPERES)							126.77	153.40	137.48							
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										350	400	3	3-175 mm2 THHN/THWN	-	1-30 mm2 THHN/THWN	-
TOTAL CURRENT IN AMPERES		417.65			COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + HD) + 30) x DF IC = 1.25 x 37.57 + [(1.732 x (1.25 x 153.39 + 150.28 - 153.39))] x 0.8 IC = 298.93 Amperes					SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HD) + 30) x DF IP = 2.5 x 37.57 + [(1.732 x (1.25 x 153.39 + 150.28 - 153.39))] x 0.8 IP = 336.50 Amperes						
TOTAL CONNECTED LOAD VA		96960														
ENCLOSURE		NEMA - 1			USE: 3-175 mm2 THHN/THWN, Stranded, Copper					USE: 350 AT, INVERSE TIME, 230V, 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:	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:	DRAWING NO.
				DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO APPROVED BY:	<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	NO. DATE DESCRIPTION	
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY						

PB - LINK3F - R373																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE	
	QTY.	Unit	VA				Description	AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL		EGC
1	7	3540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 7 x CONVENIENCE OUTLET		230	SINGLE	3.54	15.39			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2	8	3840	8 x CONVENIENCE OUTLET		230	SINGLE	3.84	16.70			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	8	3840	8 x CONVENIENCE OUTLET		230	SINGLE	3.84		16.70		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4	8	4200	10 x CONVENIENCE OUTLET		230	SINGLE	4.20		18.26		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5	8	4020	9 x CONVENIENCE OUTLET		230	SINGLE	4.02		17.48		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6	10	4800	10 x CONVENIENCE OUTLET		230	SINGLE	4.80		20.87		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	-
TOTAL CURRENT IN EACH PHASE (AMPERES)								32.09	38.35	34.96							
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																	
											110	125	3	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
TOTAL CURRENT IN AMPERES		105.39		COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + HØ) ÷ 3Ø) x DF IC = 1.25 x 20.87 + [1.732 x (1.25 x 38.35 + 37.57 - 38.35)] ÷ 0] x Ø.8 IC = 86.21 Amperes							SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HØ) ÷ 3Ø) x DF IP = 2.5 x 20.87 + [1.732 x (1.25 x 38.35 + 37.57 - 38.35)] ÷ 0] x Ø.8 IP = 107.08 Amperes						
TOTAL CONNECTED LOAD VA		24240															
ENCLOSURE		NEMA - 1		USE: 3-22 mm2 THHN/THWN Stranded, Copper							USE: 110 AT, INVERSE TIME, 230V, 3P						

PB - LINK#3-R374																		
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT			CONDUIT SIZE		
	QTY.	Unit	VA				Description	AB	BC	CA	AT	AF	POLE	COPPER WIRE, THHN/THWN				
														PHASE	NEUTRAL		EGC	
1	7	3540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 7 x CONVENIENCE OUTLET			230	SINGLE	3.54	15.39			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2	8	3840	8 x CONVENIENCE OUTLET			230	SINGLE	3.84	16.70			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	8	3840	8 x CONVENIENCE OUTLET			230	SINGLE	3.84		16.70		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4	8	4020	9 x CONVENIENCE OUTLET			230	SINGLE	4.02		17.48		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5	8	4200	10 x CONVENIENCE OUTLET			230	SINGLE	4.20		18.26		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6	10	4800	10 x CONVENIENCE OUTLET			230	SINGLE	4.80		20.87		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
TOTAL CURRENT IN EACH PHASE (AMPERES)									32.09	39.13	34.17							
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																		
												110	125	3	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
TOTAL CURRENT IN AMPERES		105.39		COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCL + HØ) ÷ 30) x DF IC = 1.25 x 20.87 + (1.732 x (1.25 x 38.35 + 37.57 - 38.35)) ÷ 0) x 0.8 IC = 86.21 Amperes								SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + HØ) ÷ 30) x DF IP = 2.5 x 20.87 + (1.732 x (1.25 x 38.35 + 37.57 - 38.35)) ÷ 0) x 0.8 IP = 107.08 Amperes						
TOTAL CONNECTED LOAD VA		24240																
ENCLOSURE		NEMA - 1		USE: 3-22 mm2 THHN/THWN Stranded, Copper								USE: 110 AT, INVERSE TIME, 230V, 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, whether executed partly in whole, without the written consent of architect or author of said documents.	DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO APPROVED BY:	<input type="checkbox"/> OWNERS 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	NO. DATE DESCRIPTION	
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY					PROJECT CODE:	

PB - LINK3F - R375																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE	
	QTY.	UNIT VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	7	3540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 7 x CONVENIENCE OUTLET	230	SINGLE	3.54	15.39			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
3	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
4	8	4200	10 x CONVENIENCE OUTLET	230	SINGLE	4.20			18.26	20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
5	8	4020	9 x CONVENIENCE OUTLET	230	SINGLE	4.02		17.48		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE	
6	10	4800	10 x CONVENIENCE OUTLET	230	SINGLE	4.80		20.87		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE	
TOTAL CURRENT IN EACH PHASE (AMPERES)																	
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS							32.09	38.35	34.96								
										110	125	3	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-	
TOTAL CURRENT IN AMPERES		105.39			COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR					SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR							
TOTAL CONNECTED LOAD VA		24240			IC = 125% of HML + (1.732 x (125% of HCNL + HO) + 30) x DF IC = 1.25 x 20.87 + [(1.732 x (1.25 x 38.35 + 37.57 - 38.35)) + 0] x 0.8 IC = 86.21 Amperes					IP = 250% HML + (1.732 x (125% of HCL + HO) + 30) x DF IP = 2.5 x 20.87 + [(1.732 x (1.25 x 38.35 + 37.57 - 38.35)) + 0] x 0.8 IP = 107.08 Amperes							
ENCLOSURE		NEMA - 1			USE: 3-22 mm2 THHN/THWN, Stranded, Copper					USE: 110 AT, INVERSE TIME, 230V, 3P							

PB - LINK3F - R376																
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	UNIT VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 7 x CONVENIENCE OUTLET	230	SINGLE	3.54	15.39			20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
3	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
4	8	4200	10 x CONVENIENCE OUTLET	230	SINGLE	4.20			18.26	20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
5	8	4020	9 x CONVENIENCE OUTLET	230	SINGLE	4.02		17.48		20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
6	10	4800	10 x CONVENIENCE OUTLET	230	SINGLE	4.80		20.87		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
TOTAL CURRENT IN EACH PHASE (AMPERES)							32.09	38.35	34.96							
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										110	125	3	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
TOTAL CURRENT IN AMPERES		105.39	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR				SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR									
TOTAL CONNECTED LOAD VA		24240	IC = 125% OF HML + (1.732 x (125% OF HCNL + HO) + 30) x DF IC = 1.25 x 20.87 + [(1.732 x (1.25 x 38.35 + 37.57 - 38.35)) + 0] x 0.8 IC = 86.21 Amperes				IP = 250% HML + (1.732 x (125% OF HCL + HO) + 30) x DF IP = 2.5 x 20.87 + [(1.732 x (1.25 x 38.35 + 37.57 - 38.35)) + 0] x 0.8 IP = 107.08 Amperes									
ENCLOSURE		NEMA - 1	USE: 3-22 mm2 THHN/THWN, Stranded, Copper				USE: 110 AT, INVERSE TIME, 230V, 3P									

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				DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1					
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY					PROJECT CODE:	

DP-01																		
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE	
	QTY.	Unit VA	Description				AB	BC	CA	3Ø	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	1	62584.19	EE/ECE/CE	230	THREE	62.58	244.39	227.16	256.04	75.63	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
2	1	151915	MDP-DNY	230	THREE	151.92	220.42	229.05	225.59		500	600	3	2 sets 3-150mm2 THW	-	1-38 mm2 THW	CABLE TRAY	
3	1	36769.71	OLD BUILDING	230	THREE	36.77	61.20	87.10	92.30		250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
4	1	474.30	ME LAB 24/7	230	THREE	0.47	20.70	20.70	18.14	32.00	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
5	1	93068.52975	MDP-CLPH	230	THREE	93.07	198.02	191.45	157.28		400	400	3	3-200 mm2 THW	-	1-22 mm2 THHN/THWN	CABLE TRAY	
6	1	8923.53	PERIMETER/CANTEEN	230	THREE	8.92	6.10	20.60	22.40		250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
TOTAL CURRENT IN EACH PHASE (AMPERES)							750.83	776.06	771.75									
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS																		
TOTAL CURRENT IN AMPERES				2298.63	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HCL+ ((1.732 x HØ)+ 3Ø) x DF IC = 1.25 x 224.32 + ((1.732 x 625.82)) + 0) x 0.8 IC = 1147.54 Amperes						SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR Ip = 125% of HCL+ ((1.732 x HØ)+ 3Ø) x DF Ic = 2.50 x 224.32 + ((1.732 x 625.82)) + 0) x 0.8 IP = 1427.94 Amperes							
TOTAL CONNECTED LOAD VA				353735.25														
ENCLOSURE				NEMA - 1	USE: 3-250 mm2 THW, 1-38 mm2 THW, Stranded, Copper						USE: 1500 AT, INVERSE TIME, 230V, 3P							

DP-02																		
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE	
	QTY.	Unit VA	Description				AB	BC	CA	3Ø	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	1	84321	PB-06 + PB-04 + PB-07 + PB-ACU-ML	230	THREE	84.32	82.92	103.04	104.55	76.09	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
2	1	35000	PB-05	230	THREE	35.00	15.22	15.22	0.00	121.24	200	250	3	3-30 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
3	1	22149.47	ME157&158	230	THREE	22.15	36.03	26.41	96.30	0.00	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
4	1	106152	DP-ML	230	THREE	106.15	153.12	159.31	145.75	0.00	450	600	3	3-150 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
5	1	20874.68	HS LIBRARY	230	THREE	20.87	64.00	72.00	58.53	76.20	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
6	1	238128	MDP-SAL + ME	230	THREE	238.13	142.80	150.06	146.19	0.00	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
TOTAL CURRENT IN EACH PHASE (AMPERES)							494.09	526.04	551.32	197.33								
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS											800	-	3	2-250 mm2 THW	-	1-38 mm2 THW	CABLE TRAY	
TOTAL CURRENT IN AMPERES		1571.45	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HCL+ ((1.732 x HØ)+ 3Ø) x DF IC = 1.25 x 150.06 + ((1.732 x 150.06)) + 0) x 0.8 IC = 395.50 Amperes								SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR Ip = 250% of HCL+ ((1.732 x HØ)+ 3Ø) x DF Ip = 2.50 x 150.06 + ((1.732 x 150.06)) + 0) x 0.8 Ip = 583.07 Amperes							
TOTAL CONNECTED LOAD VA		506625.15																
ENCLOSURE		NEMA - 1	USE: 3sets of 250 mm2 THW each phase, 1-38 mm2 THW, Stranded, Copper								USE: 1200 AT, INVERSE TIME, 230V, 3P							

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				DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1					
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY					PROJECT CODE:	

MDP-CLPH																		
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE	
	QTY.	Unit VA	Description				AB	BC	CA	3Ø	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	1	10118.64	PB-ACU-1	230	THREE	10.12	46.20	58.50	25.40		125	125	3	3-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE	
2	1	23609.00	PB-CLINIC	230	THREE	23.61	55.98	20.67	26.00		225	250	3	3-100 mm2 THHN/THWN	-	1-22.0 mm2 THHN/THWN	50 mmØ PVC PIPE	
3	1	22428.33	PB-ACU-2	230	THREE	22.43	56.30	56.00	44.20		125	125	3	3-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE	
4	1	17966.56	PB-PHYS	230	THREE	17.97	23.70	41.70	45.10		125	125	3	3-38 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE	
5	1	18946	PB-TROOM	231	THREE	18.95	15.84	14.58	16.58	34.09	60	100	3	3-14.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN		
6	1		SPARE	230	THREE	0.00												
TOTAL CURRENT IN EACH PHASE (AMPERES)																		
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS							198.02	191.45	157.28	34.09								

MDP-DNY																		
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES				INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE	
	QTY.	Unit VA	Description				AB	BC	CA	3Ø	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	1	44942	PB-ACU-LINK	230	THREE	44.94	69.31	56.52	69.57	150	150	3	3-38 mm2 THHN/THWN	-	1-14.0 mm2 THHN/THWN	40 mmØ PVC PIPE		
2	1	6849	PB-BASEMENT	230	THREE	6.85	10.10	9.67	10.02	150	150	3	3-30 mm2 THHN/THWN	-	1-14.0 mm2 THHN/THWN	40 mmØ PVC PIPE		
3	1	100124	DP-LINK3F	230	THREE	100.12	133.11	158.13	141.74	350	400	3	3-175 mm2 THHN/THWN	-	1-30 mm2 THHN/THWN	-		
4	1	3884	PB-LINK-4F	230	THREE	3.88	7.90	4.73	4.26	35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	20 mmØ PVC PIPE		
TOTAL CURRENT IN EACH PHASE (AMPERES)							220.42	229.05	225.59									
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										500	600	3	2 sets 3-150mm2 THW			-	1-38 mm2 THW	-
TOTAL CURRENT IN AMPERES				675.06	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x HD + 3Ø) x DF IC = 1.25 x 195.40 + ((1.732 x 224.32)+0) x 0.8 IC = 555.08 Amperes						SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + ((1.732 x HD) + 3Ø) x DF IP = 2.50 x 195.40 + ((1.732 x 224.32)+0) x 0.8 IP = 484.74 Amperes							
TOTAL CONNECTED LOAD VA				151915														
ENCLOSURE				NEMA - 1	USE: 2 sets 3-150mm2 THW, 1-38 mm2 THW, Stranded, Copper								USE: 500 AT, INVERSE TIME, 230V, 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, whether executed partly in whole, without the written consent of architect or author of said documents.	DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024	<input type="checkbox"/> OWNER'S APPROVAL	NO.	DATE	DESCRIPTION
							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			
								<input type="checkbox"/> CONSTRUCTION			
								<input type="checkbox"/> ESTIMATE			
								<input type="checkbox"/> FABRICATION		PROJECT CODE:	
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY							