СКТ. No.	LOAD DESCRIPTION	Qty. of CO.	Qty. of L.O.	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	ENT	CIRCUIT BREAKER			No. OF WIRE & SIZE	CONDUIT	
ND.		<u> </u>	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm²)	(mmø)
1	L.O		13	0	543	230	2.36				20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
2	O.F 4 units		0	4	400	230	1.74				20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
3	L.O		13	0	543	230		2.36			20	100	2	2-3.5mm² THHN + 1-3.5mm² THHN G	15
4	O.F 4 units		0	4	400	230		1.74			20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
5	L.O		13	0	543	230			2.36		20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15
6	O.F4 units		0	4	400	230			1.74		20	100	2	2-3.5mm² THHN + 1-3.5mm² THHN G	15
7	L.O		13	0	543	230	2.36				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
8	O.F4units		0	4	0	230	0.00				20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15
9	L.O		11	0	328	230		1.42			20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
10	L.O		20	0	473	230		2.06			20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
11	L.O		24	0	967	230			4.20		20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
12	L.O		16	0	437	230			1.90		20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15
13	L.O		11	0	233	230	1.01				20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
14	L.O		22	1	1000	230	4.35				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
15	L.O.		33	0	635	230		2.76			20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15
16	L.O.		29	7	1289	230		5.61			20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15
17	L.O.		15	0	263	230			1.14		20	100	2	2-3.5mm² THHN + 1-3.5mm² THHN G	15
18	L.O. (4F)		8	0	710	230			3.08		20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
19	L.O. (4F)		7	0	707	230	3.07				20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
20	L.O. (4F)		29	4	914	230	3.97				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
21	L.O. (4F)		20	0	306	230		1.33			20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
22	O.F4 units			4	400	230		1.74			20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
	FEEDER/ MAIN OCP	0	297	32	12034	230	18.87	19.02	14.43	0.00	100	100	з	3-30mm2 THHN + 1-8.0mm2 THHN G	40

Location: 3F EE Room Mounting: SURFACE

6.26

LOAD SCHEDULE - 3

NTS

6.26

4.35

Enclosure:

NEMA 1

20 100

20 100

20 100

No. OF WIRE & SIZE

CONDUCTOR (mm²)

2 2- 3.5m m² THHN + 1- 3.5m m² THHN G 2 2- 3.5m m² THHN + 1- 3.5m m² THHN G

2 2- 3.5m m² THHN + 1- 3.5m m² THHN G

CONDUIT

(mmø)

15 15

15

PHASE / LINE CURRENT CIRCUIT BREAKER

ØAB ØCA ØBC ØABC AT AF P

PANEL :

SYSTEM :

1 C.O. (Classroom 5) 2 C.O. (Overhead projectors)

4 C.O. (Overhead projectors)

6 C.O. (Doc storage, testing/training)

11 C.O. (File, Meeting, Acad record, archivi

12 C.O. (Accounting) 13 C.O. (COA, Staff Head, Storage, Meditatio

l(total) = 0.00A + 1.25 × 1.732 × 63.48 A =

 15
 CO. (Hand dryer, Male Toilet)

 15
 CO. (Hand dryer, Female Toilet)

 17
 CO. Electric bike

 18
 CO. Electric bike

 19
 PP-3A

 20
 COARCE

C.O. (Classroom 8)

7 C.O. (Hallway) 8 C.O. (EE, ELV, HR, Jan)

9 C.O. (Budget, Storage) 10 C.O. (Classroom 6)

14 C.O. (Dining)

20 SPACE

3 C.O. (Classroom 7)

CKT. No.

5

PP-3

LOAD DESCRIPTION

230V, 3-PHASE, 3-WIRE + G, 60Hz

8

2

8

Qty. of Qty. of Cty. VOLT-C.O. L.O. (Other AMPS

Loads)

1440 230 1000 230

1440 230

E2 02c/

SCALE

	PANEL: PP-3A				Locatio	n: 3F EE	Room	Mountir	ng:	SURFA	CE										
	SYSTEM : 230V, 3-PHASE, 3-W	RE + G, 6	50Hz					Enclosure: NEMA				NEMA 1									
акт.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	S PHASE / LINE CURRE			ENT	ENT CIRCUIT BREAKER			No. OF WIRE & SIZE	CONDUIT						
No.		C0.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm ²)	(mmø)						
1	C.O Treadmill	1			1500	230	6.52				20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15						
2	C.O Overhead Proejctor	1			500	230	2.17				20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15						
3	C.O. (Physical Fitness)	5			900	230		3.91			20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15						
4	C.O Treadmill	1			1500	230		6.52			20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15						
5	C.O Hand dryer (4F FT)	1			1800	230			7.83		20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15						
6	C.O. (Multi-purpose Rm. 4F)	8			1440	230			6.26		20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15						
7	C.O OH Projector (Multi-purpose Rm 4F)	1			500	230	2.17				20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15						
8	C.O. (Multi-purpose Rm. 4F)	8			1440	230	6.26				20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15						
9	C.O Hand dryer (4FMT)	1			1800	230		7.83			20	100	2	2-3.5mm² THHN + 1-3.5mm² THHN G	15						
10	SPARE					230		0.00			20	100	2								
11	C.O. (Storage Rm., ACCU Deck 4F)	4			720	230			3.13		20	100	2	2-3.5m m ² THHN + 1-3.5m m ² THHN G	15						
12	SPARE					230			0.00		20	100	2								
13	SPARE					230	0.00				20	100	2								
14	SPARE					230	0.00				20	100	2								
_	FEEDER/ MAIN OCP	31	0	0	12100	230	17.13	18.26	17.22	0.00	40	100	з	3-8.0m m2 THHN +1-5.5m m2 THHN G	25						

	PANEL: PP-K				Locatio	n: 3F		Mountir	ng:	SURFA	CE				
	SYSTEM : 230V, 3-PHASE, 3-WI					Enclosure: NEMA 1									
акт. No.	LOAD DESCRIPTION		Qty. of L.O.	Qty. (Other	VOLT- AMPS	VOLTS	PHASE / LINE CURRENT				CIRC	UIT BI	REAKER	No. OF WIRE & SIZE	CONDUR
ND.		C0.	1.0.	Loads)			ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm ²)	(mmø)
1	C.O Worktop freezer, 3-door	1			800	230	3.48				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
2	C.O Exhaust hood	1			750	230	3.26				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
3	POS	1			500	230		2.17			20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
4	Baine Marie	1			3000	230		13.04			20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15
5	C.O Induction Cooker	1			2600	230			11.30		20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
6	C.O Chiller, 20 cu.ft.	1			800	230			3.48		20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
7	Silver Caddy	1			1000	230	4.35				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
8	C.O Worktop chiller, 3-door	1			800	230	3.48				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15
9	SPARE					230					20	100	2		
10	SPARE					230					20	100	2		
	FEEDER/ MAIN OCP	8	0	0	10250	230	14.57	15.22	14.78	0.00	40	100	з	3-8.0m m2 THHN +1-5.5m m2 THHN G	25
	l(total) = 0.00A + 1.25 x 1.732 x 14.57A =				32.95	Α									

	PANEL: PPM-3				Location	n: 3F EE R	oom	Mountir	ig:	SURFAC	E				
	SYSTEM : 230V, 3-PHASE, 3-WIR	E + G, 60	Hz					Enclosur	e:	NEMA 1					
скт.	LOAD DESCRIPTION	Qty. of Qty. of		Qty. (Other	VOLT-	VOLTS	PH	IASE / LIN	IE CURR	ENT	CIRCUIT BREAKER			No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm ²)	(mmø)
1	ACCU-35TR			1	33788	230				84.82	150	250	3	3- 50mm ² THHN + 1- 14mm ² THHN G	50
2	SPACE														
3	ACCU-15TR			1	16894	230				42.41	80	100	3	3- 14mm ² THHN + 1- 5.5mm ² THHN G	32
4	KEF-1			1	1673	230				4.20	15	100	3	3- 3.5mm ² THHN + 1- 3.5mm ² THHN G	20
5	FCU-1u@2.5TR, 1u@1.5TR, 1u@1TR (Ex Ckt. 3)			3	279	230	1.21				20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
6	FCU- 2u@2.5TR, 1u@1TR, 1u@1.5TR (Ex Ckt.7)			4	460	230	2.00				20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
7	FCU- 1u@2.5TR, 1u@1.5TR (Ex Ckt. 5)			2	244	230		1.06			20	100	2	2- 3.5mm ² THHN + 1- 3.5mm ² THHN G	15
8	FCU- 2u@1.5TR (Ex Ckt. 6)			2	125	230		0.54			20	100	2	2- 3.5mm ² THHN + 1- 3.5mm ² THHN G	15
9	FCU- 3u@2.5TR (Ex Ckt.12)			3	544	230			2.36		20	100	2	2- 3.5mm ² THHN + 1- 3.5mm ² THHN G	15
10	FCU- 3u@2.5TR (Ex Ckt.11)			3	544	230			2.36		20	100	2	2- 3.5mm ² THHN + 1- 3.5mm ² THHN G	15
11	EXH-1-1 u (Ex Ckt.9)			1	235	230	1.02				20	100	2	2- 3.5mm ² THHN + 1- 3.5mm ² THHN G	15
12	EXH-1- 1u (Ex Ckt.10)			1	235	230	1.02				20	100	2	2- 3.5mm ² THHN + 1- 3.5mm ² THHN G	15
13	FCU- 2u@1TR, 2u@3TR (Ex Ckt.8)			4	433	230		1.88			20	100	2	2- 3.5mm ² THHN + 1- 3.5mm ² THHN G	15
14	FCU- 2u@2.5TR, 1u@1TR (Ex Ckt.4)			3	398	230	-	1.73			20	100	2	2- 3.5mm ² THHN + 1- 3.5mm ² THHN G	15
15	SPARE					230			0.00		20	100	2		
16	SPARE					230			0.00		20	100	2		
	FEEDER/ MAIN OCP			29	55851	230	5.26	5.21	4.73	131.43	225	250	3	3- 125mm2 THHN + 1- 22mm2 THHN G	80
	I(total)wire = 131.43A + 0.25 x 84.82A + 1.	732 x 5.2	6A =		161.74	A									
	I(total)ocp = 131.43A + 0.75 x 84.82A + 1.7	32 x 5.26	5A =		204.15	A									

1	~			1440	200		0.20				100	-		10										
projectors)	2			1000	230		4.35			20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15										
8)	8			1440	230			6.26		20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15		PAI	NEL: PPM-3				Location	: 3F EE Ro	om	Moun
e, testing/training)	12			2160	230			9.39		20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15		SYS	STEM : 230V, 3-PHASE, 3-WIRE	+ G, 60	/Hz					Enclos
	8			1440	230	6.26				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15	скт.	Г		Oty of	Qty. of	Qty.	VOLT-		DLL	ASE / I
t, Jan)	11			2460	230	10.70				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15	No.	1	LOAD DESCRIPTION	C.O.	L.O.	(Other	AMPS	VOLTS		- 25
orage)	11			2700	230		11.74			20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15				0.0.	L.O.	Loads)			ØAB	ØCA
6)	8			1440	230		6.26			20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15			CU-35TR			1	33788	230		
ing, Acad record, archiving	13			2600	230			11.30		20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15		SPA			4					_
eì	12			3240	230			14.09		20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15		KEF	CU-15TR			1	16894	230		
Head. Storage. Meditation	13			3060	230	13.30				20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15	4		1 J-1u@2.5TR, 1u@1.5TR, 1u@1TR (Ex Ckt.			1	1673	230		
	7			1260	230	5.48				20	100	2	2- 3.5mm ² THHN + 1- 3.5mm ² THHN G	15	5	3)	J-10@2.51K, 10@1.51K, 10@11K (EX CK).			3	279	230	1.21	
r, Male Toilet)	1			1800	230		7.83			20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15		FCL	J- 2u@2.5TR, 1u@1TR, 1u@1.5TR (Ex		+					
r, Female Toilet)	1			1800	230		7.83			20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15	6	Ckt				4	460	230	2.00	
e	1			500	230			2.17		20	100	2	2-3.5mm ² THHN + 1-3.5mm ² THHN G	15	7	FCL	J- 1u@2.5TR, 1u@1.5TR (Ex Ckt. 5)			2	244	230		1.06
e	1			500	230			2.17		20	100	2	2- 3.5m m ² THHN + 1- 3.5m m ² THHN G	15		_	J- 2u@1.5TR (Ex Ckt. 6)			2	125	230		0.54
	31			12100	230	17.13	18.26	17.22		40	100	з	3-8.0m m 2 THHN + 1-5.5m m 2 THHN G	25			J- 3u@2.5TR (Ex Ckt.12)			3	544	230		
					230						100	3					J- 3u@2.5TR (Ex Ckt.11)			3	544	230		
FEEDER/ MAIN OCP	158	0	0	43380	230	63.48	62 52	62.61	0.00	150		3	3-60m m2 THHN + 1-14m m2 THHN G	50			H-1- 1 u (Ex Ckt.9)			1	235	230	1.02	
+ 1.25 x 1.732 x 63.48 A			· ·	137.43		02.40	02.02	02.02	0.00	1 200	2.00	-	5.00mm2 mm4 · 2 · 24mm2 mm4 · 0				H-1- 1u (Ex Ckt.10)			1	235	230	1.02	
+ 1.23 x 1.732 x 03.48 A	-			137.43	A												J- 2u@1TR, 2u@3TR (Ex Ckt.8)			4	433	230		1.88
																	J- 2u@2.5TR, 1u@1TR (Ex Ckt.4)			3	398	230		1.73
																SPA						230		
															16	SPA	ARE					230		
																	FEEDER/ MAIN OCP			29	55851	230	5.26	5.21
																I(to	otal)wire = 131.43A + 0.25 x 84.82A + 1.7	32 x 5.2	26A =		161.74	A		
																I(to	otal)ocp = 131.43A + 0.75 x 84.82A + 1.73	32 x 5.2	6A =		204.15	A		
																	· ·							

CONSULTANT:	PRINCIPAL ARCHITECT:	PROF. ELECTRICAL ENGINEER:	PROJECT TITLE:	OWNER:	APPROVED BY:
ARCE • BAILON • ARCE ACHITECTS • ENGINEERS • CONSULTANTS 14 SCOUT BORROMED STREET, SOUTH TRANGLE, QUECON CITY. TRUNK INC. 3552323 FAX. NO.: 3551080 www.arcebalionarce.com	MARIANO S. ARCE, JR., fuap	ALEJANDRO S. LICERIO ACREATE ASIAN BURGHER REG. NO. 3190 PR NO. 6607604 TIN 137-135-034 DATE: JAN. 03. 2018	CONSTRUCTION OF THE ADMINISTRATIVE BUILDING AND REHABILITATION/EXPANSION OF ACADEMIC AND DORMITORY BUILDING	PHILIPPINE SCIENCE HIGH SCHOOL MAIN CAMPUS	VIRGINIA P. ANDRES SOD DIRECTOR III

SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO.:
LOAD SCHEDULE - 3			17-05 17-07	E2-02c
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	RCMCC	(ALLE	RLH	JANUARY 2018