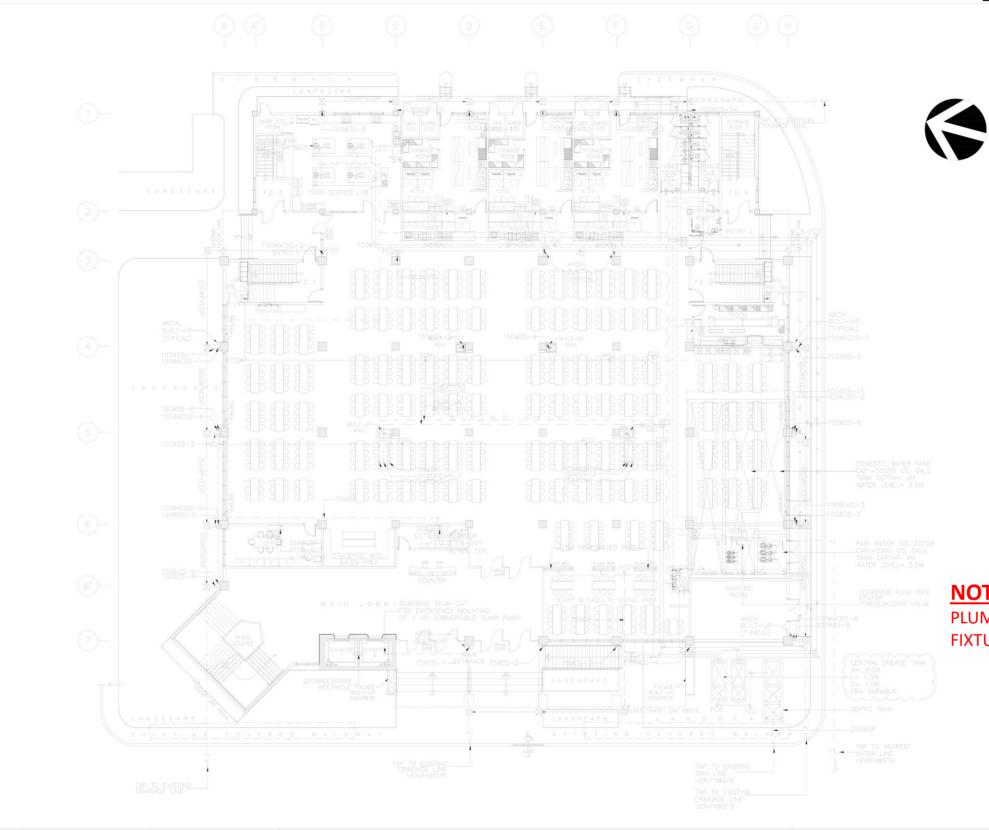
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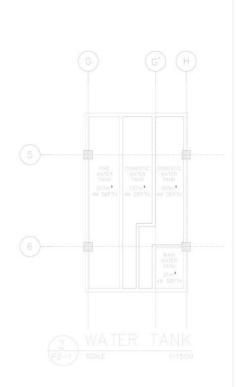
CONSULTANT:	PRINCIPAL	ARCHITECT:	DESIGN ARC	HITECT:	PROJECT 1	IITLE:	OWNER:		APPROVED BY:
ARCE • BAILON • ARCE ARCHITECTS • ENGINEERS • CONSULTANTS 14 SCOUT BORKOMED STREET, SOUTH TRANSIE, QUEZON CITY. TRINKING: 3552323 FAX NO: 3551080 www.wicebiolongice.com		IO S. ARCE, JR., fuap		EL G. YUMOL		CONSTRUCTION OF THE ACADEMIC BUILDING FOR SENIOR HIGH PROGRAM		PHILIPPINE SCIENCE HIGH SCHOOL MAIN CAMPUS	LAWRENCE V. MADRIAGA
	REG. NO.	6844 PTR NO.	- REG. NO.	1895 PTR NO.	- LOCATION:	Agham Road, Diliman, Quezon City			DIRECTOR
	TIN	- DATE:	- TIN	- DATE:	-	Agnarit Road, Diintan, Qooton City			

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SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
GENERAL NOTES, LEGENDS, SYMBOLS,				
MATERIAL SPECIFICATIONS				
			17-06	P1-0
			17-00	11-0
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
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CONSULTANT:	PRINCIPAL ARCHITECT:	DESIGN ARCHITECT:	PROJECT TITLE:	OWNER:	APPROVED BY:
ARCE • BAILON • ARCE ARCHITECTS • ENGINEERS • CONSULTANTS 14 SCOUT BORROMED STREET, SOUTH TRANGLE, QUEZON CITY. TRUNCLINE: 3552232 FAX NO: 3551080 vww.wrebellongree.com	MARIANO S. ARCE, JR., fuap	NOEL G. YUMOL	CONSTRUCTION OF THE ACADEMIC BUILDING FOR SENIOR HIGH PROGRAM	PHILIPPINE SCIENCE HIGH SCHOOL MAIN CAMPUS	
	REG. NO. 6844 PTR NO.	<ul> <li>REG. NO. 1895 PTR NO.</li> </ul>	- LOCATION: Agham Road, Diliman, Quezon City		DIRECTOR III
	TIN - DATE:	- TIN - DATE:	- Agriam koda, biiman, quezon city		



### **NOTE:** PLUMBING WORK SCOPE INCLUDES FIXTURES AT GROUND FLOOR ONLY

				171.500W	
SHE	ET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
GRO	IND FLOOR PLUMBING LAYOUT				
				17-06	P2-1
				17-06	F Z-1
		DESIGNED BY:	CAD:	CHECKED BY:	DATE:

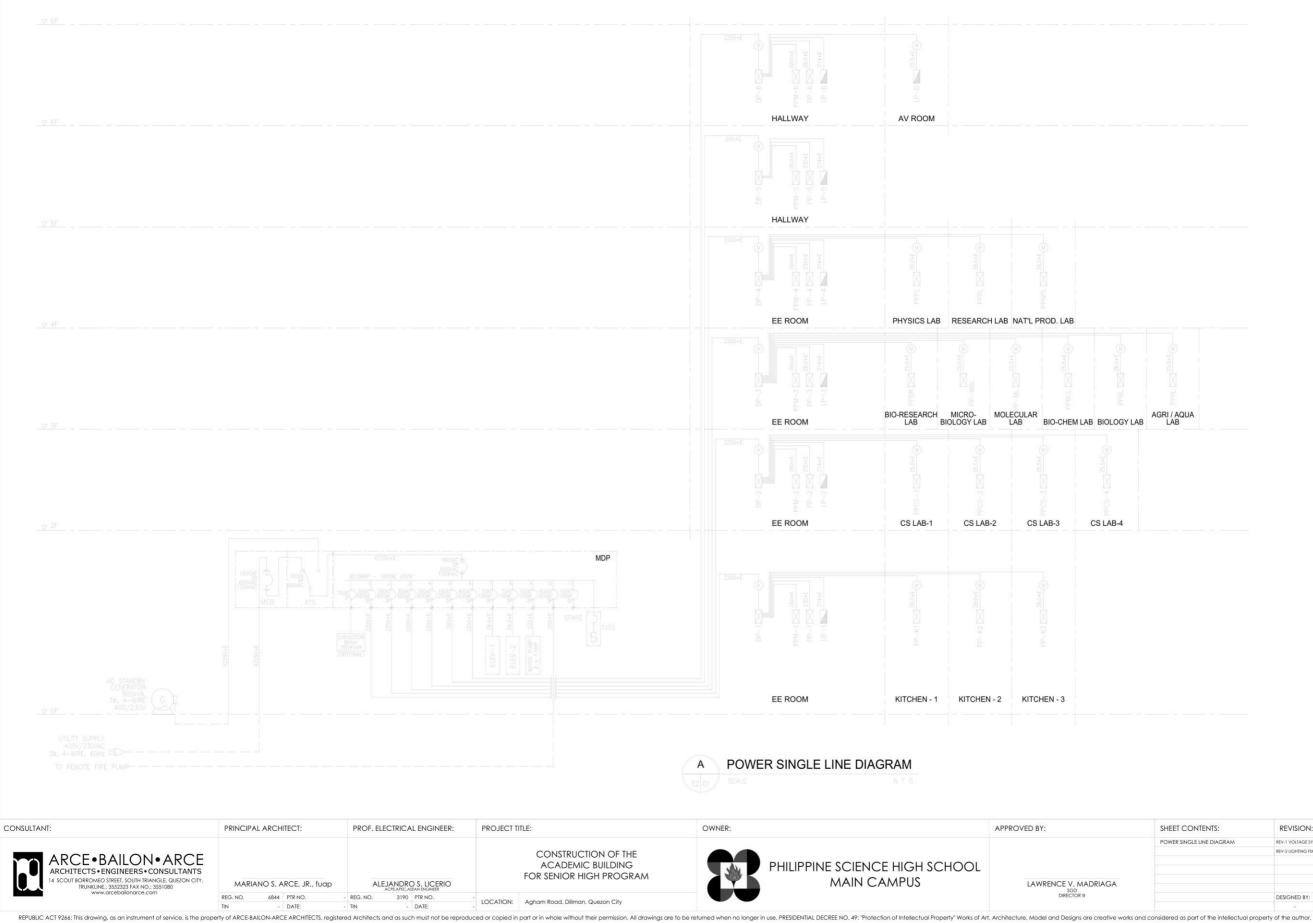
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NT: PRINCIPAL A	<ul> <li>(1)</li> <li>(2)</li> <li>(2)</li></ul>	THREE-GANG SWITCH THREE-WAY SWITCH SWITCHBANK DUPLEX CONV. OUTLET, 16A, 230V, 2P+E, M DUPLEX CONV. OUTLET, 16A, 230V, 2P+E, D DUPLEX CONV. OUTLET, 16A, 230V, 2P+E, SPECIAL PURPOSE OUTLET, 16A, 230V, 2P TOLLET EXHAUST FAN CIRCUIT HOMERUN PROF. ELECTRICAL ENGINEER:			OWNER:		APPROVED BY:
	•35ab	THREE-WAY SWITCH SWITCHBANK DUPLEX CONV. OUTLET, 16A, 230V, 2P+E, M DUPLEX CONV. OUTLET, 16A, 230V, 2P+E, DUPLEX CONV. OUTLET, 16A, 230V, 2P+E, SPECIAL PURPOSE OUTLET, 16A, 230V, 2P TOILET EXHAUST FAN					
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	•35ob •\$3W \$8	THREE-WAY SWITCH SWITCHBANK DUPLEX CONV. OUTLET, 164, 230V, 2P+E, W					
	•3Sob	THREE-WAY SWITCH SWITCHBANK					T
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	-250	TWO-GANG SWITCH					
				)		$\mathcal{A}$	CHI CHI
	$\sim$		A CONTRACT ROUMIN & WATTER RED	\ \		Σ/	77
		15.8MM X 7MM CROSS SECTION, ONE METER,				T	VERTIS NORTH
						$\lambda$	EAT
		IL-23, HIGH BAY LIGHTS, 40/50 WAT					>-
		IL-22, WALL MOUNTED LAMP, 20 WAT			MISCELLANEOUS DETAILS		
	EXL •0						1 THE
		OR 60' IN PROJECTION ANGLE,				THE SITE	VETERANS MEMOR
		WATTS LED 10-30' 3000K WARM WHIT					
		4280 LUMENS, IN SUSPENDED TRACKS					
	1L-15	LUMENS, IN 187MM DIAMETERS CUT O HEIGHT RECESSED MOUNTED LED DOW					
		LUMENS, IN 187MM DIAMETERS CUT O IL-15, DOWNLIGHT 8, 54 WATTS LED					A SITE DEVEL
		LUMENS, 211MM X 211MM X 97MM HEI					Existing Banking
		TEMP OF 3000K , IN 108MM DIAMETER					
		DIAMETERS X 160MM SURFACE MOUNTED			FLOOR PLANS / LAYOUTS		terme covert av
		IL-11, DOWNLIGHT 4 ROUND, 19 WATTS					
		IL-10, DOWNLIGHT 3 ROUND, 1 X 12.5					
		DIAMETERS CUT OUT, 140MM X 140MM IL-9, DOWNLIGHT 2 ROUND, 1 X 12.5			SCHEMATIC DIAGRAM AND COMPUTATION		
		53MM X 1220MM X 40MM HEIGHT, IL-7, CENTER LIGHT, 1-24 WATTS LED,			GENERAL		
		LED TUBE WITH 304MM X 1222MM X 10			DRAWING LIST		3)
		WITH 250MM X 1226MM X 62MM HEIG					2
		WITH 177MM X 1218MM X 75MM HEIGH					
	11-2	WITH 302MM X 1218MM X 75MM HEIGH					
	OR	WITH 603MM X 1213MM X 67MM HEIGH					
				- OU			6
		LIGHTING PANELBOARD		(M)			
		POWER INCOMING					
		CERROL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE INTESS OF THE LOCAL FORME THE PHURPHE ELECTRON. CORE, THE DONES OF THE LOCAL FORME SERVICE FROME. VOLTAGE SHALL BE THREE PHASE, 400/220 VOLTS, 4-WIRE, 60 HERTZ METHOD SHALL BE THREE PHASE, 400/220 VOLTS, 4-WIRE, 60 HERTZ METHOD SHALL BE THREE PHASE, 400/220 VOLTS, 4-WIRE, 60 HERTZ METHOD SHALL BE DONE IN ELECTRICAL METALOC TUBING (EM) FOR DETHOD SHALL BE THREE PHASE, 400/220 VOLTS, 4-WIRE, 60 HERTZ METHOD SHALL BE THREE PHASE, 400/220 VOLTS, 4-WIRE, 60 HERTZ METHOD SHALL BE THREE PHASE, 400/220 VOLTS, 4-WIRE, 60 HERTZ METHOD SHALL BE THREE PHASE, 400/200 VOLTS, 4-WIRE, 60 HERTZ HERTHOD SHALL BE THREE PHASE, 400/200 VOLTS, 4-WIRE, 60 HERTZ HERTHOD SHALL BE THREE PHASE, 400/200 VOLTS, 4-WIRE, 60 HERTZ HERTHOD SHALL BE THREE SHALL BE STATE TO POWER AND DEVELOPMENT OF UNITS, 4-WIRE SHALL BE SHALL BE THE HERTHOD SHALL DO THE SHALL BE STATE TO POWER AND DEVELOPMENT OF UNITS, 4-WIRE SHALL BE SHALL BE THE HERTHOD SHALL OF THE PHUSAL SHALL BE SHALL BE THE HERTHOD SHALL OF THE PHUSAL SHALL BE SHALL BE THE HERTHOD SHALL OF THE PHUSAL SHALL BE SHALL BE THE HERTHOD SHALL OF THE PHUSAL SHALL BE SHALL BE THE HERTHOD SHALL OF THE PHUSAL SHALL BE SHALL BE THE HERTHOD SHALL OF THE PHUSAL SHALL BE SHALL BE THE HERTHOD SHALL DO THE OFFEN SHALL BE THE SHALL BE THE HERTHOD SHALL DO THE DEVELOAND THE HERTHOD SHALL BE HERTHOD SHALL DO THE DEVELOAND THE SHALL BE THE HERTHOD SHALL DO THE DOWER AND INSTALLED IN APPLICATION FORE HERTHOD SHALL DO THE DOWER SHALL BE THERMAGE SHALL BE THANK HE SHALL BE AND BONES SHALL BE PROPERLY GROUNDED AND LOCAS SHALL BE MUBLES OTHERWISE SHEED SHALL BE THORMAGE HERTHOD SHALL BE WORKED SHALL BE THERMAGE AND THERE HERTHOD SHALL BE COLOR GUEDE SHEED SHALL BE THERMAGE AND HERTHOD SHALL SHALL BE WORKED SHALL BE THERMAGE AND HERTHON HERTHOD SHALL SHALL BE WORKED SHEED SHALL BE THERMAGE HERTHOD SHALL SHAL	<ul> <li>CENCUL ADRES HERE INSUL DE COUR A CORPUSE INT THE COURCE AND ADRES INTO THE LOCAL PORCE LEAVES INFORMATION INTO THE LOCAL PORCE LEAVES INTO THE LOCAL PORCE L</li></ul>		日本の         日本         1.1         1.1         1.1         1.1         1.1         1.1         1.1         1.1		





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SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
POWER SINGLE LINE DIAGRAM	REV-1 VOLTAGE SY	STEM 230V (JAN2018)		
	REV-2 LIGHTING FIX	TURE IL-26 (FEB2022)		
			17-06	F2-01
			17 00	
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	-		RLH	

PNL	PANELBOARD DESIGNATION	VOLT-	VOLTS	PHASE / LINE CURRENT			CIRCUIT BREAKER			No. OF WIRE & SIZE	CONDUN	
No.	TANELBOARD DESIGNATION	AMPS	10213	ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	DP-1	198678	230	119.45	119.98	125.15	288.24	600	600	3	3 x (3-80mm <sup>2</sup> THHN + 1-14mm <sup>2</sup> THHN G)	3 x 65
2	DP-2	192955	230	175.64	163.56	171.82	187.83	600	600	3	3 x (3- 80mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G)	3 x 65
3	DP-3	160400	230	117.17	117.97	123.88	195.36	500	600	3	2x (3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G)	2 x 80
4	DP-4	179023	230	152.40	145.04	136.20	195.36	600	600	3	3 x (3- 80mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G)	3 x 65
5	DP-5	65311	230	70.69	72.55	62.68	45.06	250	250	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80
6	DP-6	208016	230	40.02	44.09	46.24	446.92	700	800	3	2 x (3- 200mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G)	2 x 80
7	Elevator 1	12375	230				31.06	100	100	3	3- 14mm2 THHN + 1-5.5mm2 THHN G	32
8	Elevator 2	12375	230				31.06	100	100	3	3- 14mm2 THHN + 1-5.5mm2 THHN G	32
9	Water Pump, 3x 10HP	33462	230				84.00	125	250	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
10	DP-FP (Fire Pump)	73413	230				184.29	1200	1200	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80
11	SPARE							100	100	3		
	FEEDER/ MAIN OCP	1136008	230	675.37	663.19	665.97	1689.20	2000	2000	3	6 x (3- 200mm2 THHN & 22mm2 THHN G)	6 x 80
	I(total)wire = (1689.20A-184.29A) x 0.70 DF + 0.25 x 97.68A + 1.732 x 675.37A x 0.70 D.F.= I(total)ocp = (1,689.20A-184.29A) x 0.70 DF + 0.75 x 97.68A + 1.732 x 656.57A x 0.70	1896.68										

KVA(total) = 1.732x 2000Ax 230V/1000 = 755.56 kVA USE: Standby AC Generator, 900KVA, 3-Phase, 3-Wire, 230Vac, 60 Hz

	Panelboard: DP-FP Voltage System: 230V, 3-PHASE, 3-WII	RE + G, (	50Hz		Location:	Verify or		Mountin Enclosu	-	SURFACE					
PNL	PANELBOARD DESIGNATION		Qty. of	Qty. (Other	VOLT-	VOLTS	PH	HASE / LI	NE CUR	RENT	CIRC	uit Bre	AKER	No. OF WIRE & SIZE	CONDUIT
No.	CONTRACTOR OF THE PROPERTY CONTRACTOR OF THE PROPERTY OF THE P	C.O.	L.O.	Loads)	AMPS		ØAN	ØBN	ØCN	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	FP-1			1	68750	230				172.58	1000	1000	3	3- 100mm2 + 14mm2 THHN G	65
2	JP-1			1	4663	230				11.70	30	100	3	3- 3.5mm2 THHN + 3.5mm2 THHN G	15
3	SPACE											100	1		
5 8	FEEDER/ MAIN OCP	0	0	2	73413	230	0.00	0.00	0.00	184.29	1200	1200	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80
	l(total)wire = 1.25 x 184.29A = l(total)ocp = 6 x 172.58A + 11.70A =				230.36 1047.20										

PNL	PANELBOARD DESIGNATION		Qty. of	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	E CURR	ENT	CIRC	UIT BI	REAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.	L.O.	Loads)	AMPS		ØAN	ØBN	ØCN	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	LP-1	0	256	36	13287	230	17.32	23.21	17.24	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
2	PP-1	85	0	0	82540	230	65.04	59.39	60.52	100.41	250	250	3	3- 125mm2 THHN + 1- 22mm2 THHN G	80
3	PPM-1	0	0	21	76725	230	2.17	3.04	3.04	187.83	300	400	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80
4	PP-K1	10	0	1	8709	230	11.64	11.45	14.78	0.00	40	100	3	3- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25
5	PP-K2	10	0	1	8709	230	11.64	11.45	14.78	0.00	40	100	3	3- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25
6	PP-K3	10	0	1	8709	230	11.64	11.45	14.78	0.00	40	100	3	3- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25
	FEEDER/ MAIN OCP	115	256	60	198678	230	119.45	119.98	125.15	288.24	600	600	3	3 x (3- 80mm <sup>2</sup> THHN +1- 14mm <sup>2</sup> THHN G)	3 x 65
	I(total)wire = 288.24A + 0.25 x 93.92A + 1.73 17.24A) = I(total)ocp = 288.24A + 0.75 x 93.92A + 1.73 25.47A) =				535.95										

скт.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRCI	JIT BR	EAKER	No. OF WIRE & SIZE	CONDUN
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	L0.		7	0	174	230	0.76				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	LO.	_	11	4	995	230	4.33				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	L.O.		20	2	935	230		4.07			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	L.O.		15	7	1550	230		6.74			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
5	L.O.		10	1	546	230			2.37		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	L.O.		4	0	92	230			0.40		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	L.O.		4	0	69	230	0.30				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	LO.		11	0	398	230	1.73				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	L.O.		18	0	810	230		3.52			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	L.O.		12	0	540	230		2.35			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	L.O.		25	0	1135	230			4.93		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	SPARE					230			0.00		20	100	2		
13	LP-1A		119	22	6044	230	10.21	6.54	9.53	0.00	40	100	3	3- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25
14	SPACE					230			-	1		100	3		
-	FEEDER/ MAIN OCP	0	256	36	13287	230	17.32	23.21	17.24	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
	I(total) = 0.00A + 1.25 x 1.732 x 23.39A = Load Computation: General Lighting: 1426 sq.m x 24 VA/ s I(total) = 34,224 VA/ (1.732 x 230 Vac)	q.m =		34,224		A									

	Panelboard: LP-1A Voltage System: 230V, 3-PHASE, 3-WII	RE + G, 6	50Hz		Location:	GF EE Ro		Mountir Enclosu	-	SURFAC					
скт.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	E CURR	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	LO.		4	0	69	230	0.30				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	O.F 7 units		0	7	875	230	3.80				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	L.O.		15	0	675	230		2.93			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	LO.		13	0	203	230		0.88			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	O.F 8 units		0	8	1000	230			4.35		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	LO.		9	0	317	230	-	-	1.38		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	LO.		41	0	594	230	2.58	-			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	LO.		18	0	810	230	3.52				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	LO.		9	0	376	230		1.63			20	100	2	2- 3.5mm <sup>a</sup> THHN + 1- 3.5mm <sup>a</sup> THHN G	15
10	LO.		10	0	250	230		1.09			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	O.F 5 units		0	5	625	230		-	2.72		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	O.F 2 units		0	2	250	230	-	-	1.09		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	SPARE					230	0.00	1			20	100	2		
14	SPARE					230	0.00				20	100	2		
	FEEDER/ MAIN OCP	0	119	22	6044	230	10.21	6.54	9.53	0.00	40	100	3	3- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25

скт.	LOAD DESCRIPTION	Qty. of		Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	E CURR	ENT	CIRCI	JIT BR	EAKER	No. OF WIRE & SIZE	CONDUN
No.		C.O.		Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	Dishwashing machine	1			40000	230				100.41	125	250	3	3- 38mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	50
2	PP-1A	58			16440	230	27.65	28.96	14.87	0.00	70	100	3	3- 22mm2 THHN + 1- 8.0mm2 THHN G	32
3	C.O. (Hand dryer FT1b)	1			1800	230	7.83				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
4	C.O (Freezer, food science lab)	1			800	230	3.48				20	100	2	2-3.5mm² THHN + 1-3.5mm² THHN G	15
5	C.O (Refrigerator, food science lab)	1			500	230		2.17			20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
6	C.O. (Freeze drier)	1			500	230		2.17			20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
7	C.O. (Oven)	1			3000	230			13.04		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
8	C.O. (Oven)	1			3000	230		-	13.04		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
9	C.O. (Food science countertop)	3			3000	230	13.04				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
10	C.O. (Food science lab table)	4			3000	230	13.04				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
11	C.O. (Food science lab table)	4			3000	230		13.04			20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
12	C.O. (Food science lab table)	4			3000	230		13.04			20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
13	C.O. (Food science lab table)	4			3000	230			13.04		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
14	C.O. (Food science countertop)	1			1500	230			6.52		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
	FEEDER/ MAIN OCP	85	0	0	82540	230	65.04	59.39	60.52	100.41	250	250	3	3- 125mm2 THHN + 1- 22mm2 THHN G	80

скт.	SYSTEM : 230V, 3-PHASE, 3-WI	Qty. of	Oty, of	Qty.	VOLT-		PHA	SE / LIN		FNT	CIRCI	IIT BR	EAKER	No. OF WIRE & SIZE	CONDU
No.	LOAD DESCRIPTION	C.O.	L.O.	(Other Loads)	AMPS	VOLTS	ØAB	ØCA	ØBC	ØABC		AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O. (Security/ CCTV)	6		LOUGH	1200	230	5.22				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
2	C.O (Food science countertop)	2			3000	230	13.04				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
3	C.O. (Hand dryer PWD1)	1			1800	230		7.83	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
4	C.O. (Dining, Faculty Dining)	8			1440	230		6.26		-	20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
5	C.O. (Dining Hall, Entry 2, Jan.Rm.)	9			1620	230			7.04		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
6	C.O. (Outside)	10			1800	230			7.83		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
7	C.O. (Dining Hall)	6			1080	230	4.70				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
8	C.O. (Dining Hall)	6			1080	230	4.70				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
9	C.O. (Hand dryer MT1a)	1			1800	230		7.83			20	100	2	2-3.5mm² THHN + 1-3.5mm² THHN G	15
10	C.O. (Coop office, Entry 1, Jan Rm., Dining)	9			1620	230		7.04			20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
11	SPARE					230			0.00		20	100	2		
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	58	0	0	16440	230	27.65	28.96	14.87	0.00	70	100	3	3- 22mm2 THHN + 1- 8.0mm2 THHN G	32

	PANEL : PPM-1 SYSTEM : 230V. 3-PHASE. 3-WII		011-		Location	GF EE R	oom	Mountin		SURFA					
скт.		Qty. of	Qty. of	Qty. (Other	VOLT-	VOLTS	РН	ASE / LIP			-	UIT BI	REAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	ACCU-20TR			1	37413	230	1.1	10 A		93.92	175	250	3	3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	50
2	ACCU-20TR			1	37413	230				93.92	175	250	3	3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	50
3	FCU-1.5-1 units, FCU-1TR-1 unit			2	150	230	0.65				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	SPARE			4	350	230	1.52				20	100	2		
5	SPARE			4	350	230		1.52			20	100	2		
6	SPARE			4	350	230		1.52			20	100	2		
7	SPARE			2	350	230	-		1.52		20	100	2		
8	SPARE			3	350	230	-		1.52		20	100	2		
	FEEDER/ MAIN OCP	0	0	21	76725	230	2.17	3.04	3.04	187.83	300	400	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80

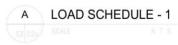
CKT. No.	LOAD DESCRIPTION	Qty. of C.O.	Qty. of L.O.	Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	IE CURR	ENT	CIRCI	UIT BR	EAKER	No. OF WIRE & SIZE	CONDUIT
NO.		c.o.	1.0.	Loads)	AIVIP 5		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	POS	1			500	230	2.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
2	C.O Worktop chiller, 3-door	1		1	588	230	2.56		1		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
3	C.O Worktop chiller, 3-door	1			588	230		2.56	2		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
4	C.O Chiller, 40 cu.ft.	1			588	230		2.56		-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
5	Baine Marie	1			3000	230			13.04		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
6	C.O Spare	2			400	230			1.74		20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	20
7	Silver Caddy	1			1000	230	4.35				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
8	C.O Chiller, 40 cu.ft.	1			588	230	2.56		1	-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
9	C.O Freezer, 40 cu.ft.	1			706	230		3.07	1		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
10	C.O Exhaust hood			1	750	230		3.26			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
11	SPARE					230			0.00		20	100	2		
12	SPARE					230			0.00		20	100	2		
	FEEDER/ MAIN OCP	10	0	1	8709	400	11.64	11.45	14.78	0.00	40	100	3	3-8.0mm2 THHN + 1-5.5mm2 THHN G	25
	l(total) = 0.00A + 1.25 x 1.732 x 14.78A =				32.00	A									

	C.O.		(Other		VOLTS	PRA	ASE / LIN	E CURR	ENT	CIRC	UIT BR	REAKER	No. OF WIRE & SIZE	CONDU
		L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
	0	297	29	12820	230	17.97	17.38	17.80	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
	201	0	0	57500	230	82.87	83.48	83.65	0.00	200	250	3	3- 100mm2 THHN + 1- 14mm2 THHN G	65
	0	0	27	76675	230	3.15	3.04	1.85	187.83	300	400	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80
	39	0	0	11180	230	20.87	12.61	15.13	0.00	50	100	3	3-8.0mm2 THHN + 1-5.5mm2 THHN G	25
	39	0	0	11180	230	20.87	12.61	15.13	0.00	50	100	3	3-8.0mm2 THHN + 1-5.5mm2 THHN G	25
	47	0	0	12780	230	17.30	20.87	17.39	0.00	50	100	3	3-8.0mm2 THHN + 1-5.5mm2 THHN G	25
	37	0	0	10820	230	12.61	13.57	20.87	0.00	50	100	3	3-8.0mm2 THHN + 1-5.5mm2 THHN G	25
					230					100	100	3		
FEEDER/ MAIN OCP	363	297	56	192955	230	175.64	163.56	171.82	187.83	600	600	3	3 x (3- 80mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G)	3 x 65
		0 39 47 37 FEEDER/ MAIN OCP 363	0 0 39 0 39 0 47 0 37 0 FEEDER/ MAIN OCP 363 297	0 0 27 39 0 0 39 0 0 47 0 0 37 0 0	0 0 27 7605 39 0 0 11180 39 0 0 0 11180 47 0 0 1226 37 0 0 10620 FEEDER/ MAIN OCP 363 297 56 192955	0         0         27         76675         230           39         0         0         11180         230           39         0         0         11180         230           47         0         0         12780         230           37         0         0         10820         230           37         0         0         10820         230           FEEDER/ MAIN OCP         363         297         56         192955         230           = 187.83A + 0.25x         93.92A + 1.732 x (175.64A + 0.25x         55         12955         230	0         0         27         76675         230         3.15           39         0         0         11180         230         20.87           39         0         0         1180         230         20.87           47         0         0         12780         230         17.30           37         0         0         10820         230         12.61           FEEDER/ MAIN OCP 663         297         56         192955         230         175.64           #175.84 + 0.25x	0         0         27         76675         230         3.15         3.04           39         0         0         11180         230         20.87         12.61           39         0         0         11180         230         20.87         12.61           47         0         0         12780         230         17.30         20.87           47         0         0         12780         230         17.30         20.87           37         0         0         10820         230         12.61         13.57           200         363         297         56         192955         230         175.64         163.56           ±157.83A + 0.25x         93.92A + 1.732x (175.64A + 0.25x         55         12955         230         175.64         163.56	0         0         27         76675         230         3.15         3.04         1.85           39         0         0         11180         230         20.87         12.61         15.13           39         0         0         11380         230         20.87         12.61         15.13           47         0         0         12670         230         17.30         20.87         17.39           37         0         0         10820         230         12.61         13.37         20.87           FEEDER/ MAIN OCP 363         297         56         192955         230         17.54         16.356         171.82           187.834 + 0.25x 93.934 + 1.72x (175.644 + 0.25x	0         0         27         76675         230         3.15         3.04         185         187.83           39         0         0         11180         230         20.87         12.61         15.13         0.00           39         0         0         11180         230         20.87         12.61         15.13         0.00           47         0         0         1280         20.61         12.61         15.13         0.00           37         0         0         10802         230         12.61         15.73         0.00           37         0         0         10802         230         12.61         15.7         0.00           37         0         0         10802         230         12.61         15.7         0.07           720         7         565         192855         230         175.64         163.56         17.82         187.83	0         0         27         76675         220         3.15         3.04         1.85         187.83         300           39         0         0         11180         220         20.87         12.61         15.13         0.00         90           39         0         0         11180         230         20.87         12.61         15.13         0.00         90           47         0         0         12780         230         17.30         20.87         12.61         15.13         0.00         90           37         0         0         10820         230         12.61         15.17         20.87         12.61         15.13         0.00         90           70         0         0.820         230         12.61         15.57         22.07         12.61         15.17         20.87         12.61         13.57         20.87         10.00         90         13.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         10.00         1	0         0         27         76675         220         3.15         3.04         1.85         187.83         300         400           39         0         0         11380         220         20.87         12.61         1513         0.00         50         100           39         0         0         0         11380         220         20.87         12.61         1513         0.00         50         100           47         0         0         12780         230         12.61         15.13         0.00         50         100           37         0         0         10820         230         12.61         15.57         20.87         10.61         50         100         100           FEDER/ MAIN OCP         363         297         56         192955         230         17.54         16.55         17.82         12.78         100	0         0         27         76675         230         3.15         3.04         1.85         187.83         300         400         3           39         0         0         11180         230         2087         12.61         15.13         0.00         50         100         3           39         0         0         11180         230         20.87         12.61         15.13         0.00         50         100         3           47         0         0         12780         230         17.30         20.87         12.38         0.00         50         100         3           47         0         0         12780         230         17.30         20.87         17.38         0.00         50         100         3           47         0         0         1280         230         17.30         20.87         17.38         0.00         50         100         3           47         0         0         18205         230         12.61         13.57         20.87         0.00         50         100         3           407         0.0         0         1282955         230         175.64	0         0         27         76675         230         3.15         3.04         185         187.83         300         400         3         3-125nm² THHV + 1- 22mm² THHV 6           39         0         0         11180         250         20.87         12.61         15.13         0.00         50         100         3         3-8.0mm2 THHV + 1- 5.5mm2 THHV 6           39         0         0         11180         250         20.87         12.61         15.13         0.00         50         100         3         3-8.0mm2 THHV + 1-5.5mm2 THHV 6           47         0         0         1280         230         17.30         20.87         12.38         0.00         50         100         3         3-8.0mm2 THHV + 1-5.5mm2 THHV 6           37         0         0         0         12820         230         12.61         13.57         0.00         50         100         3         3-8.0mm2 THHV + 1-5.5mm2 THHV 6           37         0         0         0         12820         230         12.61         13.57         0.00         50         100         3         3-8.0mm2 THHV + 1-5.5mm2 THHV 6           420         287         56         192955         230 <td< td=""></td<>

CKT. No.	LOAD DESCRIPTION	Qty. of	Qty. of L.O.	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	IE CURR	ENT	CIRCI	UIT BR	EAKER	No. OF WIRE & SIZE	CONDU
NO.		C.U.	L.U.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	L0		29	0	1051	230	4.57		2		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	O.F 4 units	1	-	4	500	230	2.17		3	-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	L0		13	0	260	230	5	1.13			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	L0		17	0	323	230		1.40			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	L.O		32	0	596	230					20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	L0		27	0	578	230			2.51		20	100	2	2- 3.5mm2 THHN + 1- 3.5mm2 THHN G	15
7	L0		25	0	548	230	2.38				20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
8	L0		22	0	344	230	1.49		1		20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
9	L0		26	0	1190	230		5.17	1		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	L0		16	0	730	230		3.17			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	L0		19	6	1615	230			7.02		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	L0		14	0	650	230			2.83	1	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	L.O		13	0	595	230	2.59		1		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	L.O		13	0	595	230	2.59		5	1	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
15	L0		31	0	870	230		3.78			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
16	D.F 5 units	-		5	625	230		2.72	1		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
17	O.F 5 units			5	625	230			2.72		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
18	O.F 5 units			5	625	230			2.72		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
19	O.F- 2 units			2	250	230	1.09				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
20	O.F- 2 units			2	250	230	1.09				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
21	SPARE		0		0	230		0.00			20	100	2		
22	SPARE					230		0.00			20	100	2		
	FEEDER/ MAIN OCP	0	297	29	12820	230	17.97	17.38	17.80	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40

CONSULTANT:	PRINCIPA	AL ARCHITECT:	PROF.	ELECTRICAL E	NGINEER:	PROJECT	TITLE:	OWNER:		APPROVED BY:
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	TIN	- DATE:	- TIN	- DA	TE:	- LOCATION:	Agnum kodu, Diiman, Quezon City			

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SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
LOAD SCHEDULE - 1	REV-1 VOLTAGE SYS	TEM 230V (JAN2018)		
	REV-1 UPDATED LOA	AD SCHED. (JAN2018)		
			17-06	F2-02a
			17-00	LZ-020
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	2		RLH	JANUARY 2018

скт.	LOAD DESCRIPTION	Qty. of		Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	IE CURRI	ENT	CIRCI	JIT BRI	EAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O. (Room 201)	9			1620	230	7.04			÷ 1	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O. (Room 202)	9			1620	230	7.04				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O. (Room 202)	9			1620	230		7.04			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O. (Room 203)	9			1620	230		7.04			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
5	C.O. (Room 204)	11			1980	230			8.61		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O. (Room 204))	11			1980	230			8.61		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	C.O. (Room 202)	9			1620	230	7.04				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	C.O. (Room 201)	9			1620	230	7.04		· · · · ·		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	C.O. (M Lounge, Receiving Counter)	9			1620	230		7.04			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	C.O. (F Lounge, Receiving Counter)	9			1620	230		7.04			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	C.O. (Hallway, Pantry 1, Room 205)	9			1620	230			7.04		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	C.O Pantry	3			3000	230			13.04		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	C.O. (Hand dryer MCT 2d)	1			1800	230	7.83				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	C.O. (Hand dryer FCT 2e)	1			1800	230	7.83				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
15	C.O. (Room 205, Pantry)	9			1620	230		7.04			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
16	C.O. (Pantry 2)	3			4500	230		19.57			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
17	C.O. (Hallway)	8			1440	230			6.26		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
18	C.O. (Hallway)	9			1620	230			7.04		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
19	PP-2A	64			23180	230	39.04	28.70	33.04	0.00	100	100	3	4-30mm2 THHN + 1-8.0mm2 THHN G	40
20	SPACE					230						100	3		
	FEEDER/ MAIN OCP	201	0	0	57500	400	82.87	83.48	83.65	0.00	200	250	3	3- 100mm2 THHN + 1- 14mm2 THHN G	65

скт.	LOAD DESCRIPTION	Qty. of		Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRCI	UIT BR	EAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O. (Library)	12			2160	230	9.39				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O. (Lobby, consultation)	8			1440	230	6.26				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O. (Pantry-Library)	2			3000	230		13.04			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O. (EE/ELV)	2			1000	230		4.35			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O. (Hand dryer MT2b)	1			1800	230			7.83		20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
6	C.O. (Hand dryer FT 2a)	1			1800	230			7.83		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	C.O. (Pantry)	1			1500	230	6.52				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	C.O. (Hand dryer PWD2)	1			1800	230	7.83				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	C.O. (Workshop, Technician)	8			1600	230		6.96			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	C.O. (Reproduction)	1			1000	230		4.35			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	C.O. (CS Faculty Room)	10			2000	230			8.70		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	C.O. (CS Faculty Room)	10			2000	230			8.70		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	C.O. (Reproduction)	1			1000	230	4.35				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	C.O. (Archives)	6			1080	230	4.70				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
15	SPARE					230		0.00			20	100	2		
16	SPARE					230		0.00			20	100	2		
17	SPARE					230			0.00		20	100	2		
18	SPARE					230			0.00		20	100	2		
	FEEDER/ MAIN OCP	64	0	0	23180	230	39.04	28.70	33.04	0.00	100	100	3	4- 30mm2 THHN + 1- 8.0mm2 THHN G	40

СКТ.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	ACCU-20TR			1	37413	230				93.92	175	250	3	3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	50
2	ACCU-20TR			1	37413	230				93.92	175	250	3	3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	50
3	FCU-1.5- 2 units, FCU-1TR- 1 unit			3	225	230	0.98				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
4	FCU-3.0TR- 2 units, FCU-1.5TR-1 unit, FCU-			4	350	230	1.52				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
5	FCU-1TR- 4 units			4	300	230		1.30			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
6	FCU-3TR- 4 units			4	400	230		1.74			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
7	FCU-3TR- 2 units			2	200	230			0.87		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
8	FCU-3TR- 2 units, FCU-1TR- 1 unit			3	225	230			0.98		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
9	FCU-1.5- 1 unit, FCU-1TR- 1 unit (GF)		1	2	150	230	0.65				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
10	SPARE			1		230	0.00				20	100	2		
11	SPARE			1		230		0.00			20	100	2		
12	SPARE			1		230		0.00			20	100	2		
13	SPARE					230			0.00		20	100	2		
14	SPARE					230					20	100	2		
15	SPARE					230					20	100	2		
16	SPARE					230					20	100	2		
	FEEDER/ MAIN OCP	0	0	27	76675	230	3.15	3.04	1 85	187.83	300	400	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80

	PANEL : PPCS-1, PPCS-2 SYSTEM : 230V, 3-PHASE, 3-WIF	RE + G, 1	60Hz		Location	CS Lab		Mountin Enclosu		SURFA					
скт.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O.	8			2400	230	10.43				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O.	8	-		2400	230	10.43				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O.	8			2400	230		10.43			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O Overhead projector	1			500	230		2.17			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O.	6			1080	230			4.70		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O.	8			2400	230			10.43		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	SPARE					230	0.00				20	100	2		
8	SPARE					230	0.00				20	100	2		
-	FEEDER/ MAIN OCP	39	0	0	11180	230	20.87	12.61	15.13	0.00	50	100	3	3- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25

	PANEL : PPCS-3 SYSTEM : 230V, 3-PHASE, 3-WII	RE + G, 6	SOHz		Location	CS Lab		Mountin Enclosu		SURFA					
скт.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PH	SE / LIN	IE CURR	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O.	8			2400	230	10.43				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O.	6			1080	230	4.70	-			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O.	8			2400	230		10.43			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O.	8			2400	230		10.43	-	-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O.	8			2400	230			10.43		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O Microlab	8			1600	230			6.96		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	C.O Overhead projector	1			500	230	2.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	SPARE					230	0.00				20	100	2		
	FEEDER/ MAIN OCP	47	0	0	12780	400	17.30	20.87	17.39	0.00	50	100	3	3-8.0mm2 THHN + 1-5.5mm2 THHN G	25

	SYSTEM : 230V, 3-PHASE, 3-WIR	RE + G, 6	SOHz					Enclosu	re:	NEMA	1				
скт.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	IE CURR	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O Overhead projector	1			500	230	2.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O.	8			2400	230	10.43				20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
3	C.O.	4			720	230		3.13			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
4	C.O.	8			2400	230		10.43			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O.	8			2400	230			10.43		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O.	8			2400	230		-	10.43		20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
7	SPARE					230	0.00				20	100	2		
8	SPARE					230	0.00				20	100	2		
	FEEDER/ MAIN OCP	37	0	0	10820	230	12.61	13.57	20.87	0.00	50	100	3	3- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25

PNL	PANELBOARD DESIGNATION		Qty. of	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	IE CURR	ENT	CIRC	UIT BR	REAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	LP-3	0	251	16	11040	230	17.02	15.01	15.97	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
2	PP-3	66	0	0	20080	230	28.09	30.61	28.61	0.00	70	100	3	3- 22mm2 THHN + 1- 8.0mm2 THHN G	32
3	PPM-3	0	0	29	80550	230	4.46	4.78	2.61	195.36	300	400	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80
4	PPBR	24	0	0	13840	230	21.74	21.91	16.52	0.00	50	100	3	3- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25
5	PP-MBL	17	0	0	5700	230	8.70	7.39	8.70	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20
6	PP-ML	27	0	0	8450	230	11.52	11.30	13.91	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20
7	PPBCL	33	0	0	7600	230	10.43	10.43	12.17	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20
8	PPBL	40	0	0	11140	230	11.74	11.30	25.39	0.00	60	100	3	3- 14mm2 THHN + 1- 5.5mm2 THHN G	32
9	PPAL	14	0	0	2000	230	3.48	5.22	0.00	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20
	FEEDER/ MAIN OCP	221	251	45	160400	230	117.17	117.97	123.88	195.36	500	600	3	2x (3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G)	2 x 80
	l(total)wire = 195.36A+ 0.25x 97.68A+ 1.732 15.97A)= l(total)ocp = 195.36A + 0.75 x 97.68A+ 1.732 15.97A)=				441.26										

скт.	LOAD DESCRIPTION	Qty. of C.O.	Qty. of	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	E CURR	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDUN
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	L0		20	0	841	230	3.66	-			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
2	L0		15	0	685	230	2.98				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	L.O		16	0	730	230		3.17			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	L0		47	0	928	230		4.04			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	L0		29	6	1478	230			6.42		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	L0		23	0	1055	230		-	4.59		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	L0		23	0	941	230	4.09				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	L0		25	0	697	230	3.03				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	L0		19	0	875	230		3.80	-		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	L0		20	0	920	230		4.00			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	L0		14	0	640	230			2.78		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	OF- 4 units		0	4	500	230			2.17		20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
13	OF-2 units		0	2	250	230	1.09				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	OF- 4 units		0	4	500	230	2.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
15	SPARE					230		0.00			20	100	2		
16	SPARE					230		0.00			20	100	2		
17	SPARE					230			0.00		20	100	2		
18	SPARE					230			0.00		20	100	2		
	FEEDER/ MAIN OCP	0	251	16	11040	230	17.02	15.01	15.97	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
	I(total) = 0.00A + 1.25 x 1.732 x 17.22A + Load Computation: General Lighting: 1426 sq.m x 24 VA/ s I(total) = 34.224 VA/ (1.732 x 230 Vac)	q.m		34,224 85.91		A									

A LOAD SCHEDULE - 2

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скт.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	E CURRI	ENT	CIRCI	JIT BR	EAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O. (SRA's Office)	5			1000	230	4.35				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O. (Lecture Rm.1)	8			1440	230	6.26				20	100	2	2-3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O Overhead Projector (Lecture Rm.1)	1			500	230		2.17	Ş	-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O. (Lecture Rm.2)	6			1080	230		4.70			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O Overhead Projector (Lecture Rm.2)	1			500	230			2.17		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O. (Lecture Rm.2)	4			720	230			3.13		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	C.O Overhead Projector (Lecture Rm.2)	1			500	230	2.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	C.O. (Lecture Rm.4)	4			720	230	3.13				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	C.O. (Lobby, Meeting)	8			1440	230		6.26	-		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	C.O. (Instruments Rm.)	6	-		1080	230		4.70	2		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	C.O Overhead Projector (Lecture Rm.4)	1			500	230			2.17		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	C.O. (Hallway)	7			1260	230			5.48		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	C.O. (EE, ELV)	2			1000	230	4.35			-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	C.O Hand dryer(FT3a)	1			1800	230	7.83				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
15	C.O. (Pantry)	1			1500	230	1	6.52		-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
16	C.O. (Hallway, Jan Rm.)	8			1440	230	8	6.26			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
17	C.O Hand dryer (PWD3)	1	-		1800	230			7.83	-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
18	C.O Hand dryer (MT3b)	1			1800	230	- L.		7.83		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
19	SPARE					230	0.00				20	100	2		
20	SPARE	1				230	0.00		1		20	100	2		
21	SPARE					230		0.00			20	100	2		
22	SPARE					230		0.00			20	100	2		
-	FEEDER/ MAIN OCF	66	0	0	20080	230	28.09	30.61	28.61	0.00	70	100	3	3- 22mm2 THHN + 1- 8.0mm2 THHN G	32

_	SYSTEM : 230V, 3-PHASE, 3-WI	RE + G, 6	iOHz					Enclosu	re:	NEMA	1				
скт.	LOAD DESCRIPTION	Qty. of		Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	IE CURRI	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O Lab table	6			1200	230	5.22				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O Tabletop autoclave	1			2600	230	11.30		1		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O Floor mounted autodave	1			4500	230		19.57	1		30	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O Weighing Area	3			540	230		2.35	S	-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O Tabletop autoclave (PPBR-05)	1			2600	230			11.30		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O Lab table	6			1200	230			5.22		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	C.O Lab table	6			1200	230	5.22				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	SPARE					230	0.00				20	100	2		
9	SPARE					230		0.00	1		20	100	2		
10	SPARE					230		0.00			20	100	2		
-	FEEDER/ MAIN OCP	24	0	0	13840	230	21.74	21.91	16.52	0.00	50	100	3	3- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25

	PANEL : PP-MBL SYSTEM : 230V, 3-PHASE, 3-WIF	RE + G, 6	OHz		Locution	Microbiol		Enclosu	-	SURFA					
скт.	LOAD DESCRIPTION	Qty. of		Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	IE CURR	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O Incubator	1			500	230	2.17				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
2	C.O. (Prep Rm.)	1			500	230	2.17				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
3	C.O Lab bench	6			1200	230		5.22			20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
4	C.O Incubator	1			500	230	1	2.17	1		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
5	C.O Lab bench	6			1200	230			5.22		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
6	C.O Refrigerator 2 units	1			800	230			3.48		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
7	C.O- Incubator 2 units	1			1000	230	4.35				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
8	SPARE		-			230	0.00	0	ŝ		20	100	2		
9	SPARE					230		0.00			20	100	2		
10	SPARE					230		0.00			20	100	2		
	FEEDER/ MAIN OCP	17	0	0	5700	230	8.70	7.39	8.70	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20

l(total) =	1.25 x	1.732	x 8.70	A	

_	SYSTEM : 230V, 3-PHASE, 3-WI	RE + G, C	UHZ					Enclosu	re:	NEMA	1		-		
CKT. No.	LOAD DESCRIPTION	Qty. of	Qty. of L.O.	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	E CURR	ENT	CIRCI	UIT BF	EAKER	No. OF WIRE & SIZE	CONDU
NO.		C.O.		Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Ρ	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O Lab bench	6			1200	230	5.22				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O Hood	1			250	230	1.09				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O Countertop	7			1400	230		6.09			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
4	C.O Lab bench	6			1200	230		5.22			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O Counter autoclave	1			2600	230			11.30		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O.	3			600	230			2.61		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	C.O Refrigerator	1			800	230	3.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	C.O. (Prep Room)	2			400	230	1.74				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	SPARE		-		-	230		0.00			20	100	2		
10	SPARE					230		0.00			20	100	2		
	FEEDER/ MAIN OCP	27	0	0	8450	230	11.52	11.30	13.91	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20

CONSULTANT:	PRINCIPA	LARCH	TECT:	PROF. E	LECTRIC	AL ENGINEER:	PROJECT	TITLE:	OWNER:		APPROVED BY:
ARCE • BAILON • ARCE ARCHITECTS • ENGINEERS • CONSULTANTS 14 SCOUTBORROMED STREET, SOUTH TRANGLE, QUEZON CITY. TRUNCLUM: 3352223 FAN NO: 3351080 vww.wrebellongreg.com	MARIA	NO S. A	RCE, JR., fuap	AL	EJANDR	O S. LICERIO		CONSTRUCTION OF THE ACADEMIC BUILDING FOR SENIOR HIGH PROGRAM	*	PHILIPPINE SCIENCE HIGH SCHOOL MAIN CAMPUS	LAWRENCE V. MADRIAGA
www.diceballonaice.com	REG. NO.	6844	PTR NO.	- REG. NO.	3190	PTR NO.	- LOCATION:	Agham Road, Diliman, Quezon City			SGD DIRECTOR III
	TIN	12	DATE:	- TIN	2	DATE:	- LUCATION:	Agnam koda, Diliman, Quezon City			

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SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
LOAD SCHEDULE - 2	REV-1 VOLTAGE SYSTEM			
			17-06	E2-02b
	DESIGNED BY: C	AD:	CHECKED BY:	DATE:
			RLH	JANUARY 2018

	PANEL : PPBCL SYSTEM : 230V, 3-PHASE, 3-WII		-01-		Location	Biochem		Mountin	0	SURFA					
скт.		Qty. of	Qty. of	Qty. (Other	VOLT-	VOLTS		SE / LIN			<u> </u>	UIT BR	EAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O Lab bench	8			1600	230	6.96				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O Refrigerator	1			800	230	3.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O Lab bench	8			1600	230		6.96			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O Countertop	4			800	230		3.48			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O Lab bench	8			1600	230			6.96		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O Drying Oven	1			1200	230			5.22		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	SPARE	1				230	0.00				20	100	2		
8	SPARE	2				230	0.00				20	100	2		
	FEEDER/ MAIN OCP	33	0	0	7600	230	10.43	10.43	12.17	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20

tal) = 1.25 x 1.732 x 12.17A

скт.	LOAD DESCRIPTION	Qty. of	Qty. of	Qty.	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRCI	JIT BR	EAKER	No. OF WIRE & SIZE	CONDUN
No.	LOAD DESCRIPTION	C.O.	L.O.	(Other Loads)	AMPS	VOLIS	ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O Lab table	2			400	230	1.74		- 34 - 4		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O Lab table	2			400	230	1.74	1			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O Lab table	2			400	230		1.74	-		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O Countertop	4			800	230		3.48			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O. (Equipment Room)	3			540	230			2.35		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O Autoclave	1			4500	230			19.57		30	100	2	2-5.5mm2 THHN + 1-5.5mm2 THHN G	20
7	C.O Incubator	1			500	230	2.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	C.OCountertop	3			600	230	2.61				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	C.O Refrigerator 2 units	2			1000	230		4.35			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	C.O Lab table	2			400	230		1.74			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	C.O Lab table	2		-	400	230			1.74		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	C.O Lab table	2			400	230			1.74		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	C.O.	4			800	230	3.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	SPARE	1				230	0.00				20	100	2		
15	SPARE	1				230		0.00			20	100	2		
16	SPARE	8				230		0.00			20	100	2		
	FEEDER/ MAIN OCP	40	0	0	11140	230	11.74	11.30	25.39	0.00	60	100	3	3- 14mm2 THHN + 1- 5.5mm2 THHN G	32

	SYSTEM : 230V, 3-PHASE, 3-WI	RE + G, 6	50Hz					Enclosu	re:	NEMA	1				
скт.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	E CURR	ENT	CIRC	UIT BR	REAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.		Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O Lab table	2			400	230	1.74				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O Lab table	2			400	230	1.74				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O Lab table	2			400	230		1.74			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O Countertop	4			800	230		3.48			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	SPARE	3				230			0.00		20	100	2		
6	SPARE	1				230			0.00		20	100	2		
	FEEDER/ MAIN OCF	14	0	0	2000	230	3.48	5.22	0.00	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20

СКТ.	LOAD DESCRIPTION	Qty. of		Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	E CURR	ENT	CIRCI	JIT BR	EAKER	No. OF WIRE & SIZE	CONDUN
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	ACCU-30TR			1	38913	230				97.68	175	250	3	3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	50
2	ACCU-30TR			1	38913	230				97.68	175	230	3	3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	50
3	FCU-1.5- 4 units			4	300	230	1.30				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	FCU-2.5TR- 2 units, FCU-1.0TR-1 unit			3	225	230	0.98				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	FCU-2TR- 2 units, FCU-1.5TR- 2 units			4	300	230		1.30			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	FCU-2.0TR- 2 units, FCU-1.5TR- 2 units	-		4	300	230		1.30			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	FCU-1TR- 4 units			4	300	230			1.30		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	FCU-2TR- 3 units, FCU-1TR- 1 unit			4	300	230			1.30		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	TEF-1			1	250	230	1.09				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	EXH-1			1	250	230	1.09				20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
11	EXH-1			1	250	230		1.09			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	EXH-1			1	250	230		1.09			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	SPARE					230			0.00		20	100	2		
14	SPARE					230	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )			0	20	100	2		
15	SPARE					230					20	100	2		
16	SPARE					230					20	100	2		
	FEEDER/ MAIN OCP	0	0	29	80550	230	4.46	4.78	2.61	195.36	300	400	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80

PNL	PANELBOARD DESIGNATION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRC	UIT BI	REAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	LP-4	0	257	22	12168	230	16.60	18.46	17.85	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
2	PP-4	103	0	0	38860	230	58.22	55.78	52.96	0.00	125	250	3	3- 38mm2 THHN + 1- 14mm2 THHN G	50
3	PPPL	90	0	0	17840	230	27.83	27.83	21.91	0.00	60	100	3	3- 14mm2 THHN + 1- 5.5mm2 THHN G	32
4	PPRL	37	0	0	15970	230	24.17	22.43	22.83	0.00	60	100	3	3- 14mm2 THHN + 1- 5.5mm2 THHN G	32
5	PPNPL	50	0	0	11760	230	19.39	13.91	13.48	0.00	50	100	3	4-8.0mm2 THHN + 1-5.5mm2 THHN G	25
6	PPM-4	0	0	33	82425	230	6.20	6.63	7.17	195.36	300	400	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80
	FEEDER/ MAIN OCP	280	257	55	179023	230	152.40	145.04	136.20	195.36	600	600	3	3 x (3-80mm <sup>2</sup> THHN +1-14mm <sup>2</sup> THHN G)	3 x 65

СКТ.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRCI	JIT BR	EAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	L.O		15	0	685	230	2.98				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	L0		16	0	730	230	3.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	L0		22	0	1000	230		4.35			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	L0		53	0	1107	230		4.81			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	L0		29	6	1478	230			6.42		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	L0		21	0	945	230			4.11		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	L0		25	0	1086	230	4.72				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	L0		16	0	740	230	3.22				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	L0		20	0	891	230		3.87			20	100	2	2- 3.5mm <sup>a</sup> THHN + 1- 3.5mm <sup>a</sup> THHN G	15
10	L0		9	0	497	230		2.16			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	L0		25	0	933	230			4.06		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	OF- 6 units		0	6	750	230			3.26		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	LO.		4		76	230	0.33				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	OF- 4 units		0	4	500	230	2.17				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
15	OF- 2 units		0	2	250	230		1.09			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
16	OF- 4 units		0	4	500	230		2.17			20	100	2		
17	SPARE		2	0	0	230			0.00		20	100	2		-
18	SPARE		0		0	230			0.00		20	100	2		
-	FEEDER/ MAIN OCP	0	257	22	12168	230	16.60	18.46	17.85	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
	I(total) = 0.00A + 1.25 x 1.732 x 17.85A Load Computation: General Lighting: 1426 sq.m x 24 VA/ s I(total) = 34.224 VA/ (1.732 x 230 Vac	iq.m	-	34,224 85.91		5 A									

СКТ.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	SE / LIN	E CURR	ENT	CIRC	UIT BF	REAKER	No. OF WIRE & SIZE	CONDU
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O. (Hallway)	8			1440	230	6.26				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O. (EE, ELV)	2			1000	230	4.35				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O. (Pantry)	1			2150	230		9.35			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O. (Physics Faculty)	14			2520	230		10.96			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O. (Hallway)	9			1620	230	Č		7.04		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O Hand dryer (PWD 4)	1			1800	230	2		7.83		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	C.O Hand dryer (MT 4b)	1	-		1800	230	7.83				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	C.O. (Equipment Rm.)	1			500	230	2.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	C.O. (Equipment Rm.)	1			500	230		2.17			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	C.O. (Equipment Rm.)	1			500	230		2.17			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	C.O. (Prep Rm.)	2			1000	230			4.35		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	C.O Freezer (Prep Rm.)	1			1500	230			6.52		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	C.O Refrigerator (Prep Rm.)	1			500	230	2.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	C.O. (Prep Rm.)	2			1000	230	4.35				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
15	C.O Freezer (Prep Rm.)	1			1500	230		6.52			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
16	C.O Refrigerator (Prep Rm.)	1			500	230		2.17			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
17	C.O. (Lecture Rm.)	4			720	230	5		3.13		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
18	C.O Overhead projector (Lecture Rm.)	1			500	230			2.17		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>3</sup> THHN G	15
19	PP-4A	51			17810	230	31.09	22.43	21.91		70	100	3	3- 22mm2 THHN + 1- 8.0mm2 THHN G	32
20	SPARE					230	0.00				40	100	3		
	FEEDER/ MAIN OCF	103	0	0	38860	230	58.22	55.78	52.96	0.00	125	250	3	3- 38mm2 THHN + 1- 14mm2 THHN G	50

СКТ.	LOAD DESCRIPTION		f Qty. of	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIP	IE CURR	ENT	CIRC	UIT BF	EAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O (Instruments Rm.)	4			800	230	3.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O. (Equipment Rm.)	2			1000	230	4.35				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O. (C.Chem.Rm.)	3			540	230		2.35			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O Freezer (C.Chem.Rm.)	1			1500	230	2	6.52			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O Freezer (C.Chem.Rm.)	1			1500	230			6.52		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O Refrigerator (C.Chem.Rm.)	1			500	230			2.17		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	C.O Refrigerator (C.Chem.Rm.)	1			500	230	2.17				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	C.O Freezer (C.Chem.Rm.)	1			1500	230	6.52				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	C.O Table (C.Chem.Rm.)	6			1200	230		5.22			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	C.O Table (C.Chem.Rm.)	6			1200	230		5.22			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	C.O STR Faculty Rm.	10	1		2000	230			8.70		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	C.O. (Repro, STR Faculty Rm.)	3	1		1500	230			6.52		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	C.O. (Pantry, STR Faculty Rm.)	2			2150	230	9.35				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	C.O. (STR Faculty Rm.)	6			1200	230	5.22				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
15	C.O. (Lobby)	4			720	230		3.13			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
16	SPARE					230		0.00			20	100	2		
17	SPARE					230			0.00		20	100	2		
18	SPARE					230			0.00		20	100	2		
_	FEEDER/ MAIN OCP	51	0	0	17810	230	31.09	22.43	23.91	0.00	70	100	3	3- 22mm2 THHN + 1- 8.0mm2 THHN G	32

67.30 A

CKT.	SYSTEM : 230V, 3-PHASE, 3-WI	I	Qty. of	Qty.	VOLT-			Enclosu		NEMA		117 00	EAKER	No. OF WIRE & SIZE	CONDU
No.	LOAD DESCRIPTION	C.O.	L.O.	(Other	AMPS	VOLTS				ØABC	AT	AF	P		
-	C.O Lab bench	-		Loads)			ØAB	ØCA	ØBC	ØABC				CONDUCTOR (mm <sup>2</sup> )	(mmø)
	C.O Lab bench	8	-	-	1600	230	6.96		-		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G 2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O Lab bench	8	-		1600	230 230	6.96	6.96	-	-	20	100	2		15
-	C.O Lab bench	8	-					6.96		-	30	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G 2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O Lab bench	8			1600 1600	230		6.96	6.96		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G 2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
-		8	-				-	-							
	C.O.	-	-	-	1500	230			6.52	-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	C.O. C.O Countertop	2	-	-	360	230	1.57	-	-	-	20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
-	SPARE	5	-		900	230	3.91			-	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9		1			500	230					20	100	2		
10	SPARE FEEDER/ MAIN OCP	1 50	0	0	500 11760	230 230		13.91		0.00	20	100	2	4- 8.0mm2 THHN + 1- 5.5mm2 THHN G	25
	PANEL : PPM-4				Location:	4FEE Ro	om	Mountin	ng:	SURFA	Œ				
	PANEL : PPM-4 SYSTEM : 230V, 3-PHASE, 3-WI	IRE + G, I	50Hz		Location:	4FEE Ro		Mountir Enclosu		SURFA NEMA					
		Qty. of	Qty. of	Qty. (Other	VOLT-	4F EE Ro			re:	NEMA	1	JIT BF	EAKER	No. OF WIRE & SIZE	CONDUIT
No.	SYSTEM : 230V, 3-PHASE, 3-WI LOAD DESCRIPTION	<u> </u>		Qty.				Enclosu	re:	NEMA	1		EAKER P	CONDUCTOR (mm <sup>2</sup> )	CONDUIT (mmø)
No.	SYSTEM : 230V, 3-PHASE, 3-WI LOAD DESCRIPTION ACCU-25TR	Qty. of	Qty. of	Qty. (Other	VOLT- AMPS 38913		PHA	Enclosu	re: IE CURR	NEMA ENT	1 CIRCI AT 175			CONDUCTOR (mm <sup>2</sup> ) 3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	
No.	SYSTEM : 230V, 3-PHASE, 3-WI LOAD DESCRIPTION	Qty. of	Qty. of	Qty. (Other Loads)	VOLT- AMPS	VOLTS	PHA	Enclosu	re: IE CURR	NEMA ENT ØABC	1 CIRCI	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
No.	SYSTEM : 230V, 3-PHASE, 3-WI LOAD DESCRIPTION ACCU-25TR	Qty. of	Qty. of	Qty. (Other Loads) 1	VOLT- AMPS 38913	VOLTS 230	PHA	Enclosu	re: IE CURR	NEMA ENT ØABC 97.68	1 CIRCI AT 175	AF 250	Р 3	CONDUCTOR (mm <sup>2</sup> ) 3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	(mmø) 50
No.	SYSTEM : 230V, 3-PHASE, 3-WI LOAD DESCRIPTION ACCU-25TR ACCU-25TR	Qty. of	Qty. of	Qty. (Other Loads) 1 1	VOLT- AMPS 38913 38913	<b>VOLTS</b> 230 230	PH# ØAB	Enclosu	re: IE CURR	NEMA ENT ØABC 97.68	1 CIRCI AT 175 175	AF 250 230	P 3 3	CONDUCTOR (mm <sup>2</sup> ) 3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G 3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	(mmø) 50 50
No. 1 2 3 4	SYSTEM : 230V, 3-PHASE, 3-WI LOAD DESCRIPTION ACCU-25TR ACCU-25TR FCU-2.5-2 units	Qty. of	Qty. of	Qty. (Other Loads) 1 1 2	VOLT- AMPS 38913 38913 150	VOLTS 230 230 230	рн <i>4</i> ØAB 0.65	Enclosu	re: IE CURR	NEMA ENT ØABC 97.68	1 CIRCI AT 175 175 20	AF 250 230 100	P 3 3 2	CONDUCTOR (mm <sup>2</sup> ) 3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G 3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G 2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	(mmø) 50 50 15
No. 1 2 3 4 5	SYSTEM:         230V, 3-PHASE, 3-WI           LOAD DESCRIPTION         ACCU-25TR           ACCU-25TR         ACCU-25TR           FCU-2.5R - 2 units         FCU-2.5R - 1 unit           FCU-2.5R - 2 units, FCU-1.5TR-1 unit         FCU-2.5R - 2 units, FCU-3.5TR-1 unit	Qty. of	Qty. of	Qty. (Other Loads) 1 1 2 3	VOLT- AMPS 38913 38913 150 225	VOLTS 230 230 230 230	рн <i>4</i> ØAB 0.65	Enclosu ASE / LIN ØCA	re: IE CURR	NEMA ENT ØABC 97.68	1 CIRCI 175 175 20 20	AF 250 230 100 100	P 3 3 2 2	CONDUCTOR (mm <sup>2</sup> ) 3-50mm <sup>2</sup> THHN + 1-14mm <sup>2</sup> THHN G 3-50mm <sup>2</sup> THHN + 1-14mm <sup>2</sup> THHN G 2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G 2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	(mmø) 50 50 15 15
No. 1 2 3 4 5 6	SYSTEM:         230V, 3-PHASE, 3-WI           LOAD DESCRIPTION         ACCU-25TR           ACCU-25TR         FCU-25.2 xunits           FCU-25.2 xunits, FCU-1.5TR-1 unit         FCU-1.5TR-1 unit           FCU-25TR - 3 units         Sunits	Qty. of	Qty. of	Qty. (Other Loads) 1 1 2 3 3 3	VOLT- AMPS 38913 38913 150 225 225 225	VOLTS 230 230 230 230 230 230	рн <i>4</i> ØAB 0.65	Enclosu ASE / LIN ØCA 0.98	re: IE CURR	NEMA ENT ØABC 97.68	1 CIRCI AT 175 175 20 20 20	AF 250 230 100 100	P 3 3 2 2 2 2	CONDUCTOR (mm <sup>2</sup> ) 3- 50mm <sup>3</sup> TH1N + 1- 14mm <sup>3</sup> THHN G 3- 50mm <sup>2</sup> TH1N + 1- 14mm <sup>2</sup> TH1N G 2- 3.5mm <sup>2</sup> TH1N + 1- 3.5mm <sup>3</sup> TH1N G 2- 3.5mm <sup>2</sup> TH1N + 1- 3.5mm <sup>2</sup> TH1N G	(mmø) 50 50 15 15 15
No. 1 2 3 4 5 6 7	SYSTEM:         230V, 3-PHASE, 3-WI           LOAD DESCRIPTION         ACCU-25TR           ACCU-25TR         FCU-25 2 units           FCU-25 2 units, FCU-15TR-1 unit         FCU-15TR-1 unit           FCU-15TR - 3 units         FCU-15TR-1 unit	Qty. of	Qty. of	Qty. (Other Loads) 1 1 2 3 3 4	VOLT- AMPS 38913 38913 150 225 225 300	VOLTS 230 230 230 230 230 230 230	рн <i>4</i> ØAB 0.65	Enclosu ASE / LIN ØCA 0.98	ø IE CURR ØBC	NEMA ENT ØABC 97.68	1 CIRCO AT 175 175 20 20 20 20 20	AF 250 230 100 100 100	P 3 2 2 2 2 2 2	CONDUCTOR (mm <sup>2</sup> ) 3- 50mm <sup>3</sup> THHN + 1- 14mm <sup>3</sup> THHN 6 2- 35mm <sup>3</sup> THHN + 1- 3.5mm <sup>3</sup> THHN 6 2- 35mm <sup>3</sup> THHN + 1- 3.5mm <sup>3</sup> THHN 6 2- 35mm <sup>3</sup> THHN + 1- 3.5mm <sup>3</sup> THHN 6 2- 3.5mm <sup>3</sup> THHN + 1- 3.5mm <sup>3</sup> THHN 6	(mmø) 50 50 15 15 15 15 15
No. 1 2 3 4 5 6 7	SYSTEM:         230V, 3-PHASE, 3-WI           LOAD DESCRIPTION         ACCU-25TR           ACCU-25TR         ACCU-25TR           PCU-25TR-2 units         FCU-15TR-1 unit           FCU-25TR-3 units         FCU-15TR-1 unit           FCU-15TR-4 units         TF-3 units, ERH-1 -1 unit	Qty. of	Qty. of	Qty. (Other Loads) 1 1 2 3 3 4 4 4	VOLT- AMPS 38913 38913 150 225 225 300 1000	VOLTS 230 230 230 230 230 230 230 230	рн <i>4</i> ØAB 0.65	Enclosu ASE / LIN ØCA 0.98	e: IE CURR ØBC 4.35	NEMA ENT ØABC 97.68	1 CIRCO AT 175 175 20 20 20 20 20 20	AF 250 230 100 100 100 100 100	P 3 2 2 2 2 2 2 2	CONDUCTOR (mm <sup>2</sup> ) 3. 50mm <sup>2</sup> THHN + 1. 14mm <sup>2</sup> THHN G 2. 35mm <sup>2</sup> THHN + 1. 14mm <sup>2</sup> THHN G 2. 35mm <sup>2</sup> THHN + 1. 35mm <sup>2</sup> THHN G 2. 35mm <sup>2</sup> THNN + 1. 35mm <sup>2</sup> THHN G 2. 35mm <sup>2</sup> THNN + 1. 35mm <sup>2</sup> THHN G 2. 35mm <sup>2</sup> THHN + 1. 35mm <sup>2</sup> THHN G	(mmø) 50 50 15 15 15 15 15 15 15
No. 1 2 3 4 5 6 7 8 9	SYSTEM:         230V, 3-PHASE, 3-WI           LOAD DESCRIPTION         ACCU-25TR           ACCU-25TR         CPU-25-22 units           FCU-25-27R-2 units, FCU-15TR-1 unit         FCU-25-27R-2 units, FCU-15TR-1 unit           FCU-15TR-2 units, FCU-15TR-1 unit         FCU-15TR-1 unit           FCU-15TR-2 units, FCU-15TR-1 unit         FCU-15TR-1 unit           FCU-15TR-2 units, FCU-15TR-1 unit         FCU-15TR-1 unit           FCU-15TR-1 units         FCU-15TR-1 unit	Qty. of	Qty. of	Qty. (Other Loads) 1 1 2 3 3 3 4 4 4 2	VOLT- AMPS 38913 38913 150 225 225 225 300 1000 150	VOLTS 230 230 230 230 230 230 230 230 230	<b>PH</b> A ØAB 0.65 0.98	Enclosu ASE / LIN ØCA 0.98	e: IE CURR ØBC 4.35	NEMA ENT ØABC 97.68	1 CIRCO 175 175 20 20 20 20 20 20 20 20	AF 250 230 100 100 100 100 100	P 3 2 2 2 2 2 2 2 2 2 2 2 2	CONDUCTOR (mm <sup>2</sup> ) 3. Somm <sup>3</sup> THHN 4 - 1. 4mm <sup>3</sup> THHN 6 3. Somm <sup>3</sup> THHN 1 - 1 4mm <sup>3</sup> THHN 6 3. Somm <sup>3</sup> THHN 4 - 1. Somm <sup>3</sup> THHN 6 3. Somm <sup>3</sup> THHN 4 - 1. Somm <sup>3</sup> THHN 6 2. Somm <sup>3</sup> THHN 4 - 1. Somm <sup>3</sup> THHN 6 2. 3. Somm <sup>3</sup> THHN 4 - 1. Somm <sup>3</sup> THHN 6 2. 3. Somm <sup>3</sup> THHN 4 - 1. Somm <sup>3</sup> THHN 6 3. Somm <sup>3</sup> THHN 4 - 1. Somm <sup>3</sup> THHN 6	(mmø) 50 50 15 15 15 15 15 15 15 15
2 3 4 5 6 7 8 9 10	SYSTEM:         230V, 3-PHASE, 3-WI           LOAD DESCRIPTION         ACCU-257R           ACCU-257R         ACCU-257R           COL-257R         2 units, FCU-157R-1 unit           FCU-357R-2 units, FCU-157R-1 unit         FCU-357R-4 units           TF-1-3 units, EXH-1-1 unit         TF-1-3 units, EXH-1-1 unit	Qty. of	Qty. of	Qty. (Other Loads) 1 1 2 3 3 4 4 4 2 4 4	VOLT- AMPS 38913 38913 150 225 225 300 1000 150 300	VOLTS 230 230 230 230 230 230 230 230 230 230	PHA ØAB 0.65 0.98	Enclosu ASE / LIN ØCA 0.98	e: IE CURR ØBC 4.35	NEMA ENT ØABC 97.68	1 CIRCI AT 175 20 20 20 20 20 20 20 20 20 20	AF 250 230 100 100 100 100 100 100 100	P 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CONDUCTOR (mm <sup>2</sup> ) 3 · Stomm <sup>2</sup> THHN + 1. Jamm <sup>2</sup> THHN G 2 · Stom <sup>2</sup> THHN + 1. Jamm <sup>2</sup> THHN G 2 · Stom <sup>2</sup> THHN + 1. Stomm <sup>2</sup> THHN G 2 · Stom <sup>2</sup> THHN + 1. Stomm <sup>2</sup> THHN G 2 · Stom <sup>2</sup> THHN + 1. Stomm <sup>2</sup> THHN G 2 · Stom <sup>2</sup> THHN + 1. Stomm <sup>2</sup> THHN G 2 · Stom <sup>2</sup> THHN + 1. Stom <sup>2</sup> THHN G 2 · Stom <sup>2</sup> THHN + 1. Stom <sup>2</sup> THHN G	(mmø) 50 50 15 15 15 15 15 15 15 15 15 15





I(total) = 0.00A + 1.25 x 1.732 x 31.09A =

REPUBLIC ACT 9266: This drawing, as an instrument of service, is the property of ARCE-BAILON-ARCE ARCHITECTS, registered Architects and as such must not be reproduced or copied in part or in whole without their permission. All drawings are to be returned when no longer in use. PRESIDENTIAL DECREE NO. 49: "Protoction of Intellectual Property" Works of Art, Architecture, Model and Designs are creative works and considered as part of the intellectual property of the author.

PANEL :

6 C.O.- Lab table 7 C.O.- Lab table

6 C.O. (Instrum... 7 C.O. (Weighing) • C.O.- Refrigerate . (Instrument Rm.)

1 C.O. (Fume Hood)

 11
 TF-3-2 units, EXH-3-1 unit

 12
 TF-1-1 unit, EXH-1-1 unit

 13
 TF-1-3 unit, EXH-1-1 unit

 14
 SPARE

 15
 SPARE

 16
 SPARE

 16
 SPARE

I(total) = 0.00 + 1.25 x 1.732 x 24.1

8 C.C

14 SPARE

CKT. No.

SYSTEM :

- Lab table Lab tab ) - Lah table 4 C.O.- Lab table 5 C.O.- Lab table

LOAD DESCRIPTION

# FOR BIDDING

PPPL				Location	Physics		Mountin	-	SURFA					
230V, 3-PHASE, 3-WI	RE + G, 6	50Hz		_			Enclosu	re:	NEMA	1				
DESCRIPTION	Qty. of	Qty. of	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	IE CURR	ENT	CIRCI	UIT BR	EAKER	No. OF WIRE & SIZE	CONDUIT
	LU.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
	4	1		800	230	3.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230	3.48				20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
	4			800	230		3.48			30	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230		3.48			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230		-	3.48		20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
	4			800	230			3.48		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230	3.48		1	-	20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
	4			800	230	3.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230		3.48			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230		3.48			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
	8			1440	230			6.26		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
t Room)	2			400	230		-	1.74		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230	3.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230	3.48	1		1	20	100	2	2- 3.5mm2 THHN + 1- 3.5mm2 THHN G	15
	4			800	230		3.48	-		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4	1		800	230		3.48			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230			3.48		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230			3.48		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230	3.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230	3.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230		3.48			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	4			800	230		3.48			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
FEEDER/ MAIN OCP	90	0	0	17840	230	27.83	27.83	21.91	0.00	60	100	3	3- 14mm2 THHN + 1- 5.5mm2 THHN G	32

PPRL 230V, 3-PHASE, 3-WI	RE + G, 6	OHz		Location	Researc		Mountin Enclosu		SURFA					
DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	E CURR	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDUN
	C.O.	L.O.	Loads)	AMPS	1 1	ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
	12			2160	230	9.39				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
,	1	1		1500	230	6.52	-	2		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	2		1	2000	230		8.70			30	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	12			2160	230		9.39			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	1			2000	230			8.70		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
t Rm.)	3			3000	230			13.04		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	2			400	230	1.74				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
ed centrifuge	1			1500	230	6.52				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
or(Instrument Rm.)	1			500	230		2.17			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
or(Instrument Rm.)	1			500	230		2.17			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
d)	1			250	230			1.09		20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
			-	-	230	-		0.00		20	100	2		
					230	0.00		k		20	100	2		
					230	0.00				20	100	2		
FEEDER/ MAIN OCP	37	0	0	15970	230	24.17	22.43	22.83	0.00	60	100	3	3- 14mm2 THHN + 1- 5.5mm2 THHN G	32
1.25 x 1.732 x 24.17A =	i i			52.34	A						-			

PPM-4 230V, 3-PHASE, 3-WI	RE + G, 6	OHz		Location	4FEE Ro		Mountin Enclosu		SURFA					
DESCRIPTION	Qty. of C.O.	Qty. of L.O.	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	IE CURR	ENT	CIRCI	JIT BR	EAKER	No. OF WIRE & SIZE	CONDUIT
	C.O.	L.O.	Loads)	ANIPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
			1	38913	230			1	97.68	175	250	3	3- 50mm2 THHN + 1- 14mm2 THHN G	50
			1	38913	230		S		97.68	175	230	3	3- 50mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	50
			2	150	230	0.65	2	6		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
ts, FCU-1.5TR-1 unit			3	225	230	0.98				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
			3	225	230		0.98			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
ts			4	300	230		1.30			20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
I-1- 1 unit			4	1000	230			4.35		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
			2	150	230			0.65		20	100	2	2- 3.5mm² THHN + 1- 3.5mm² THHN G	15
-1-1 unit			4	300	230	1.30				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
			3	750	230	3.26				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
-1-1 unit			3	750	230		3.26			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
-1-1 unit			1	250	230		1.09			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
1-1 unit			2	500	230			2.17		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
					230				-	20	100	2		
				-	230					20	100	2		
				_	230					20	100	2		
FEEDER/ MAIN OCP	0	0	33	82425	230	6.20	6.63	7.17	195.36	300	400	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80

I(total)wire = 195.36A + 0.25 x 97.68A + 1.732 x 7.17A = I(total)ccp = 195.36A + 0.75 x 97.68A x 1.732 x 7.17A = 281.05 A

SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
LOAD SCHEDULE - 3	REV-1 VOLTAGE SYST	EM 230V (JAN2018)		
	REV-1 UPDATED LOAD	D SCHED. (JAN2018)		
			17-06	E2-02c
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	2 C		RLH	JANUARY 2018

	Panelboard: DP-5 Voltage System: 230V, 3-PHASE, 3-WIF	RE + G, 6	50Hz		Location:	SF Hallwa	ау	Mountin	0	SURFA					
PNL	PANELBOARD DESIGNATION		Qty. of	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	E CURR	ENT	CIRC	UIT B	REAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	LP-5	0	172	19	7646	230	9.73	11.05	12.46	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
2	PP-5	74	0	0	39040	230	59.65	60.52	49.57	0.00	150	250	3	3- 60mm2 THHN + 1- 14mm2 THHN G	50
3	PPM-5	0	0	11	18625	230	1.30	0.98	0.65	45.06	100	100	3	3- 14mm <sup>2</sup> THHN + 1- 5.5mm <sup>2</sup> THHN G	32
4	SPACE					230						250	3		1
	FEEDER/ MAIN OCP	74	172	30	65311	230	70.69	72.55	62.68	45.06	250	250	3	3- 125mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G	80

No.         COU         COU         Description         Mail         MA         96.         All of the processing of the proces of the processing of the processing of the process	скт.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRCI	JIT BR	REAKER	No. OF WIRE & SIZE	CONDU
2         LO-         7         0         325         230         1.41          7         2         2.3 fsm <sup>2</sup> THH + 1.5 fsm <sup>2</sup> THH + 6         1.5 fsm <sup>2</sup> THH + 1.5 fsm <sup>2</sup> THH + 6         1.5 fsm <sup>2</sup> THH + 1.5 fsm <sup>2</sup> THH + 6         1.5 fsm <sup>2</sup> THH +	NO.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Ρ	CONDUCTOR (mm <sup>2</sup> )	(mmø)
3         LO-         28         0         400         230         1.91         2.01         63         2         2.3.5mm <sup>2</sup> THHN + 1.3.5mm <sup>2</sup> THHNG         15           4         LO-         30         0         512         230         2.23         2.23         2.23.5mm <sup>2</sup> THHN + 1.3.5mm <sup>2</sup> THHNG         15           5         LO-         9         0         1.41         20         2.23         2         2.3.5mm <sup>2</sup> THHN + 1.3.5mm <sup>2</sup> THHNG         15           6         LO-         57         1.4         2726         230         1.15         20         63         2         2.3.5mm <sup>2</sup> THHN + 1.3.5mm <sup>2</sup> THHNG         15           7         LO-         8         0         300         20         1.57         20         63         2         2.3.5mm <sup>2</sup> THHN + 1.3.5mm <sup>2</sup> THHNG         15           8         LO-         15         0         690         230         1.57         20         63         2         2.3.5mm <sup>2</sup> THHN + 1.3.5mm <sup>2</sup> THHNG         15           9         LO-         15         0         690         230         1.57         20         63         2         2.3.5mm <sup>2</sup> THHN + 1.3.5mm <sup>2</sup> THHNG         15           9         LO-         15 <td>1</td> <td>L0</td> <td></td> <td>17</td> <td>5</td> <td>944</td> <td>230</td> <td>4.10</td> <td></td> <td></td> <td></td> <td>20</td> <td>63</td> <td>2</td> <td>2-3.5mm<sup>2</sup> THHN + 1-3.5mm<sup>2</sup> THHN G</td> <td>15</td>	1	L0		17	5	944	230	4.10				20	63	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
4         LO-         30         0         512         230         2.33         -         103         233         -         103         233         -         103         233         -         103         233         -         103         233         -         103         233         -         103         233         -         103         233         233         -         103         233         233         -         103         233         233         233         -         103         233         233         333         233         233         333         233         333	2	L.O		7	0	325	230	1.41				20	63	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
5         LO         9         0         141         230         0.61         20         63         2         2.35mm <sup>2</sup> THHM + 1.35mm <sup>2</sup> THHM 6         15           6         LO         57         14         270         230         11.85         20         63         2         2.35mm <sup>2</sup> THHM + 1.35mm <sup>2</sup> THHM 6         15           7         LO         8         0         600         230         1.57         20         63         2         2.35mm <sup>2</sup> THHM + 1.35mm <sup>2</sup> THHM 6         15           8         LO         15         0         690         230         2.55         20         63         2         2.35mm <sup>2</sup> THHM + 1.35mm <sup>2</sup> THHM 6         15           9         LO         15         0         690         230         2.65         20         63         2         2.35mm <sup>2</sup> THHM + 1.35mm <sup>2</sup> THHM 6         15           9         LO         15         0         690         230         6.61         20         63         2         2.35mm <sup>2</sup> THHM + 1.35mm <sup>2</sup> THHM 6         15           9         LO         15         0         690         230         0.00         20         63         2         2.35mm <sup>2</sup> THHM + 1.35mm <sup>2</sup> THHM 6         15 <tr< td=""><td>3</td><td>L0</td><td></td><td>28</td><td>0</td><td>440</td><td>230</td><td></td><td>1.91</td><td></td><td></td><td>20</td><td>63</td><td>2</td><td>2-3.5mm<sup>2</sup> THHN + 1-3.5mm<sup>2</sup> THHN G</td><td>15</td></tr<>	3	L0		28	0	440	230		1.91			20	63	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
6         LO-         57         14         276         230         1185         20         63         2         2.35mm <sup>2</sup> THHV + 3.35mm <sup>2</sup> THHV 6         15           7         LO-         8         0         360         230         1.57         20         63         2         2.35mm <sup>2</sup> THHV + 3.35mm <sup>2</sup> THHV 6         15           8         LO-         15         0         69         2.0         1.57         2.0         63         2         2.35mm <sup>2</sup> THHV + 3.35mm <sup>2</sup> THHV 6         15           9         LO-         1         0         159         2.65         2.0         63         2         2.35mm <sup>2</sup> THHV + 3.5mm <sup>2</sup> THHV 6         15           9         LO-         1         0         159         2.0         6.51         2         2.35mm <sup>2</sup> THHV + 3.5mm <sup>2</sup> THHV 6         15           9         LO-         1         0         0.2         0.0         20         63         2         2.35mm <sup>2</sup> THHV + 3.5mm <sup>2</sup> THHV 6         15           9         LO-         1         0         0         2         0.00         20         63         2         2.35mm <sup>2</sup> THHV + 3.5mm <sup>2</sup> THHV 6         15           11         SPARE         0         0	4	L0		30	0	512	230		2.23			20	63	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
7         LO         8         0         360         230         1.57         20         63         2         2.35mm <sup>2</sup> THIN + 1.35mm <sup>2</sup> THIN 6         15           8         LO         15         0         609         200         2.65         2         2.35mm <sup>2</sup> THIN + 1.35mm <sup>2</sup> THIN 6         15           9         LO         1         0         1589         20         6.51         2         2.35mm <sup>2</sup> THIN + 1.35mm <sup>2</sup> THIN 6         15           9         LO         1         0         1589         20         6.51         2         2.35mm <sup>2</sup> THIN + 1.35mm <sup>2</sup> THIN 6         15           10         SPARE         0         0         230         0.00         20         63         2         2.35mm <sup>2</sup> THIN + 1.35mm <sup>2</sup> THIN 6         15           11         SPARE         0         0         230         0.00         20         63         2         2.35mm <sup>2</sup> THIN + 1.35mm <sup>2</sup> THIN 6         15           12         SPARE         0         0         230         0.00         20         63         2         2         15	5	L0		9	0	141	230			0.61		20	63	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
8         LO-         15         0         60         230         2.63         -         12         2.3 Stam <sup>2</sup> THHN + 1.3 Stam <sup>2</sup> THHN 6         15           9         LO-         1         0         1589         200         6.61         -         20         6.81         2         2.3 Stam <sup>2</sup> THHN + 1.3 Stam <sup>2</sup> THHN 6         15           9         LO-         0         0         1589         200         6.01         -         20         6.81         2         2.3 Stam <sup>2</sup> THHN + 1.3 Stam <sup>2</sup> THHN 6         15           9         LO-         0         0         0         200         -         200         6.81         2         2.3 Stam <sup>2</sup> THHN + 1.3 Stam <sup>2</sup> THHN 6         15           10         SPARE         0         0         2.00         -         2.00         2.0         6.81         2         2.3 Stam <sup>2</sup> THHN + 1.3 Stam <sup>2</sup> THHN 6         15           11         SPARE         0         0         2.00         2.00         2.0         6.81         2         2.3 Stam <sup>2</sup> THHN + 1.3 Stam <sup>2</sup> THHN 6         15           12         SPARE         0         0         2.30         0.000         2.0         6.81         2         2.3 Stam <sup>2</sup> THHN + 1.3 Stam <sup>2</sup> THHN + 1.3 Stam <sup>2</sup> TH	6	L0		57	14	2726	230			11.85		20	63	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
9         LO         1         0         1589         230         6.91         20         63         2         2.3.5mm <sup>3</sup> THHN + 1.3.5mm <sup>3</sup> THHN G         15           10         SPARE         0         0         0         230         0.00         20         63         2         2.3.5mm <sup>3</sup> THHN + 1.3.5mm <sup>3</sup> THHN G         15           11         SPARE         0         0         230         0.00         20         63         2         2           12         SPARE         0         0         230         0.00         20         63         2         2	7	L0		8	0	360	230	1.57				20	63	2	2-3.5mm2 THHN + 1-3.5mm2 THHN G	15
10         SPARE         0         0         0         230         0.00         230         63         24           11         SPARE         0         0         0         230         0.00         20         63         2           12         SPARE         0         0         0         230         0.00         20         63         2	8	L0	1	15	0	609	230	2.65				20	63	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
11     SPARE     0     0     230     0.00     20     63     2       12     SPARE     0     0     230     0.00     20     63     2	9	L0	-	1	0	1589	230		6.91			20	63	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
12 SPARE 0 0 0 230 0.00 20 63 2	10	SPARE	-	0	0	0	230	-	0.00			20	63	2		
	11	SPARE		0	0	0	230			0.00		20	63	2		
	12	SPARE		0	0	0	230			0.00		20	63	2		
FEEDER/ MAIN OCP 0 172 19 7646 230 9.73 11.05 12.46 0.00 100 100 3 3-30mm2 THHN +1-8.0mm2 THHN G 40		FEEDER/ MAIN OCP	0	172	19	7646	230	9.73	11.05	12.46	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40

	PANEL : PP-5 SYSTEM : 230V, 3-PHASE, 3-WII	RE + G, 6	OHz		Location	5F Hallw	ray	Mountin	-	SURFA					
CKT. No.	LOAD DESCRIPTION	Qty. of C.O.	Qty. of L.O.	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIN	E CURR	ENT	CIRC	JIT BR	REAKER	No. OF WIRE & SIZE	CONDUIT
NO.		C.U.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Ρ	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O Hand dryer (MT 5b)	1			1800	230	7.83				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O Hand dryer (PWD 5b)	1			1800	230	7.83				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O Hand dryer (FT 5c)	1			1800	230		7.83			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O. (Hallway)	6			1080	230		4.70			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O. (Lobby)	8			1440	230			6.26		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O. (Lobby)	7			1260	230			5.48		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	C.O. (Secretariat Rm.)	9			1620	230	7.04				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	C.O. (Hallway, Jan. Rm.)	5			900	230	3.91				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	C.O Hand dryer (FT 5a)	1			1800	230		7.83			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	C.O Hand dryer (PWD 5a)	1			1800	230		7.83			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	C.O Hand dryer (MT 5a)	1			1800	230			7.83		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
12	C.O. (Auditorium front)	5			900	230			3.91		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	C.O. (Auditorium stage)	3			600	230	2.61				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
14	C.O. (Auditorium stage)	5			1000	230	4.35				20	100	2	2- 3.5mm <sup>a</sup> THHN + 1- 3.5mm <sup>a</sup> THHN G	15
15	C.O. (Backstage)	4			720	230		3.13			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
16	C.O. (Backstage)	4			720	230		3.13			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
17	C.O. (Dressing Rm.1)	2			3000	230			13.04		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
18	C.O. (Dressing Rm.1)	2			3000	230			13.04		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
19	C.O. (Dressing Rm.2)	2			3000	230	13.04				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
20	C.O. (Dressing Rm.2)	2			3000	230	13.04				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
21	C.O. (Dressing Rm.3)	2			3000	230		13.04		_	20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
22	C.O. (Dressing Rm.3)	2			3000	230		13.04			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
	FEEDER/ MAIN OCP	74	0	0	39040	230	59.65	60.52	49.57	0.00	150	250	3	3- 60mm2 THHN + 1- 14mm2 THHN G	50

l(total) = 1.25 x 1.732 x 60.52A = 131.03 A

	PANEL : PPM-5 SYSTEM : 230V, 3-PHASE, 3-WII	RE + G, 6	50Hz		Location	. St Hunt		Mountin	0	SURFA					
СКТ.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRC	UIT BF	REAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Ρ	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	ACCU-15TR			1	17950	230				45.06	80	100	3	3- 14mm <sup>2</sup> THHN + 1- 5.5mm <sup>2</sup> THHN G	32
2	SPACE					230				0.00		100	3		
3	FCU-1.5- 4 units			4	300	230	1.30				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	SPARE					230	0.00			0.00	20	100	2		
5	FCU-2.0- 3 units			3	225	230		0.98			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	SPARE			1		230		0.00			20	100	2		
7	FCU-1.5- 2 units			2	150	230			0.65		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	SPARE					230			0.00		20	100	2		
	FEEDER/ MAIN OCP			11	18625	230	1.30	0.98	0.65	45.06	100	100	3	3- 14mm <sup>2</sup> THHN + 1- 5.5mm <sup>2</sup> THHN G	32
	I(total)wire = 1.25 x 45.06A + 1.732 x 1.3 I(total)ocp = 1.75 x 45.06A + 1.732 x 1.3				58.58 81.11			2					· · · · ·		

PNL	PANELBOARD DESIGNATION		Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIM	E CURR	ENT	CIRC	UIT BR	REAKER	No. OF WIRE & SIZE	CONDUN
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	LP-6	0	69	6	4363	230	6.29	5.54	7.14	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40
2	LP-D	0	104	0	5729	230	8.03	7.77	9.10	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20
3	PP-6	27	0	0	19740	230	25.04	30.78	30.00	0.00	70	100	3	3- 22mm2 THHN + 1- 8.0mm2 THHN G	32
4	PPM-6	0	0	8	178185	230	0.65	0.00	0.00	446.92	600	600	3	2 x (3- 125mm2 THHN + 1- 22mm2 THHN G)	2 x 80
5	SPACE											600	3		
	FEEDER/ MAIN OCP	27	173	14	208016	230	40.02	44.09	46.24	446.92	700	800	3	2 x (3- 200mm <sup>2</sup> THHN + 1- 22mm <sup>2</sup> THHN G)	2 x 80

	SYSTEM : 230V, 3-PHASE, 3-WI	RE + G, 6	50Hz					Enclosu	re:	NEMA	1				
CKT.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PH/	SE / LIN	E CURR	ENT	CIRC	UIT BR	EAKER	No. OF WIRE & SIZE	CONDUN
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	P	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	ACCU-SOTR		1	1	70000	230	10		5	175.72	300	400	3	3- 100mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	65
2	ACCU-SOTR			1	70000	230	5		ě.	175.72	300	400	3	3- 100mm <sup>2</sup> THHN + 1- 14mm <sup>2</sup> THHN G	65
3	AHU-100 TR			1	30483	230				76.52	200	250	3	3- 30mm <sup>2</sup> THHN + 1- 8.0mm <sup>2</sup> THHN G	40
4	SPACE					230			1	0.00		100	3		
5	SPF-1 (2 HP)			1	2979	230			1	7.48	20	100	3	3- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
6	SPF-1 (2 HP)			1	2979	230				7.48	20	100	3	3- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
7	EPF-1(1HP)			1	1593	230			3	4.00	20	100	3	3- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	20
8	FCU-1.STR- 2 units			2	150	230	0.65				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
-	FEEDER/ MAIN OCP			8	178185	230	0.65	0.00	0.00	446.92	600	600	3	2 x (3- 125mm2 THHN + 1- 22mm2 THHN G)	2 x 80

СКТ.	LOAD DESCRIPTION		Qty. of	Qty. (Other	VOLT-	VOLTS	PH	ASE / LIP	IE CURR	ENT	CIRCI	UIT BA	REAKER	No. OF WIRE & SIZE	CONDUIT
No.		C.O.	L.O.	Loads)	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	L0		1	0	384	230	1.67				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
2	L0		15	0	295	230	1.28				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
3	L0		18	0	381	230		1.66			20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
4	L0		20	0	509	230		2.21	1		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
5	L0		11	2	758	230			3.29		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
6	L0		1	0	384	230			1.67		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
7	L0		1	0	384	230	1.67				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
8	L0		1	0	384	230	1.67				20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
9	L0		1	0	384	230		1.67			20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
10	SPARE		0			230		0.00			20	100	2		
11	O.F 4 units		0	4	500	230	<u></u>		2.17		20	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
12	SPARE		0	0	0	230			0.00		20	100	2		
	FEEDER/ MAIN OCP	0	69	6	4363	230	6.29	5.54	7.14	0.00	100	100	3	3- 30mm2 THHN + 1- 8.0mm2 THHN G	40

 Load Computation:
 general Lighting: 1426 sq.m x 24 VA/ sq.m
 = 34,224 VA

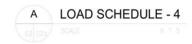
 I(total) = 34,224 VA/ (1.732 x 230 Vac)
 85.91 A

скт.	LOAD DESCRIPTION		f Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRCI	JIT BF	REAKER	No. OF WIRE & SIZE	CONDUN
No.		C.O.	L.O.	Loads	AMPS		ØAB	ØCA	ØBC	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	L0		8	0	473	230	2.05				15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	L.O		9	0	450	230	1.96				15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	L0		12	0	810	230		3.52			15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>3</sup> THHN G	15
4	L.O		6	0	353	230		1.53			15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	L0		10	0	463	230		-	2.01	-	15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	L0		9	0	1100	230			4.78		15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	L0		11	0	463	230	2.01				15	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
8	L.O		11	0	463	230	2.01				15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	L0		1	0	313	230		1.36			15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
10	L.O		10	0	313	230		1.36			15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
11	LO.		10	0	313	230			1.36		15	100	2	2-3.5mm <sup>2</sup> THHN + 1-3.5mm <sup>2</sup> THHN G	15
12	LO.		7	0	219	230			0.95		15	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
13	SPARE		1				3				15	100	2		5
14	SPARE										15	100	2		
15	SPARE										15	100	2		
16	SPARE										15	100	2		
	FEEDER/ MAIN OCP	0	104	0	5729	230	8.03	7.77	9.10	0.00	30	100	3	3- 5.5mm2 THHN + 1- 5.5mm2 THHN G	20

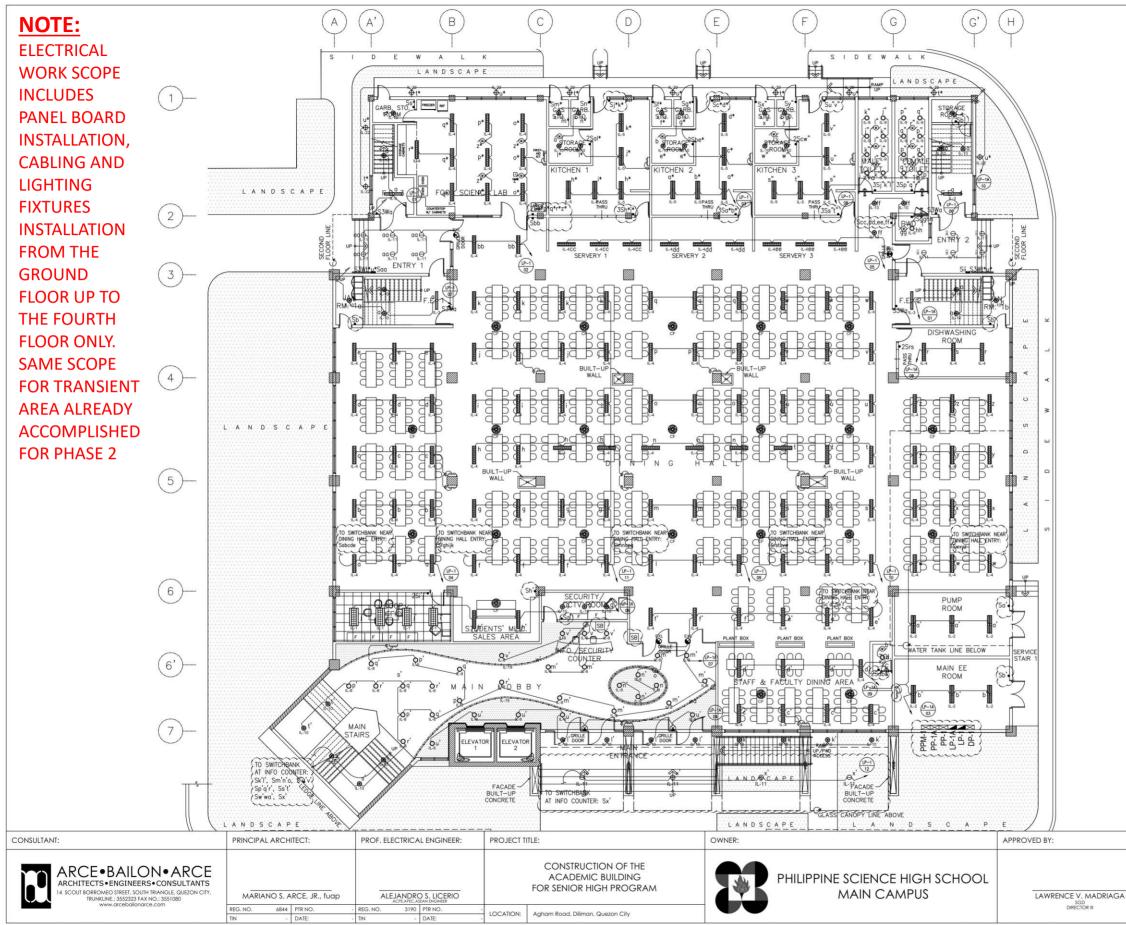
	PANEL : PP-6				Location	: 6F Hally	vay	Mountin	ig:	SURFA	CE				
	SYSTEM : 230V, 3-PHASE, 3-WI	RE + G, 6	50Hz					Enclosu	re:	NEMA	1				
CKT.	LOAD DESCRIPTION	Qty. of	Qty. of	Qty. (Other	VOLT-	VOLTS	PHA	ASE / LIN	E CURR	ENT	CIRC	JIT BA	REAKER	No. OF WIRE & SIZE	CONDU
NO.		C.O.	L.O.	Loads)	AMPS		ØAB	ØBC	ØCA	ØABC	AT	AF	Р	CONDUCTOR (mm <sup>2</sup> )	(mmø)
1	C.O. (ACCU deck 2, AHU Rm.)	5			900	230	3.91				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
2	C.O. (Jan., Storage, Lecture)	7			1260	230	5.48				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
3	C.O. (AV Room)	1			6000	230	1	26.09			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
4	C.O. (Auditorium- rear, Storage)	6			1080	230		4.70			20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
5	C.O. (ACCU deck 1)	5			900	230			3.91		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
6	C.O. (AV Room)	1			6000	230			26.09		20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
7	Hand dryer (MT)	1			1800	230	7.83				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
8	Hand dryer (FT)	1			1800	230	7.83				20	100	2	2- 3.5mm <sup>2</sup> THHN + 1- 3.5mm <sup>2</sup> THHN G	15
9	SPARE					230		0.00			20	100	2		
10	SPARE					230		0.00			20	100	2		
11	SPARE				_	230			0.00		20	100	2		
12	SPARE					230	-		0.00		20	100	2		
	FEEDER/ MAIN OCP	27	0	0	19740	230	25.04	30.78	30.00	0.00	70	100	3	3- 22mm2 THHN + 1- 8.0mm2 THHN G	32

CONSULTANT:	PRINCIPA		ECT:	PROF. EL	LECTRICAL ENGINE	EER: P	ROJECT TI	TLE:	OWNER:		APPROVED BY:
ARCE•BAILON•ARCE ARCHITECTS•ENGINEERS•CONSULTANTS Is SCUT BOROMED STREETS •CONSULTANTS Is SCUT BOROMED STREETS JOUTH TRANSLE QUEEON CITY. TRUNCLINE: 3552722 FAX NO: 3551060	MARIA	NO S. AR	CE, JR., fuap	AL	EJANDRO S. LICER	RIO		CONSTRUCTION OF THE ACADEMIC BUILDING FOR SENIOR HIGH PROGRAM	*	PHILIPPINE SCIENCE HIGH SCHOOL MAIN CAMPUS	LAWRENCE V. MADRIAGA
www.dicebdilondice.com	REG. NO.	NO. 6844 PTR NO REG. NO. 3190 PTR NO LOCATION: Agham Road, Dilman, Quezon City			SGD DIRECTOR III						
	TIN	- 0	DATE:	- TIN	- DATE:		JCAIION.	Agnum kodu, Dilimun, Quezon City			

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SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
LOAD SCHEDULE - 4	REV-1 VOLTAGE SYST			
	REV-1 UPDATED LOAD	D SCHED. (JAN2018)	17-06	E2-02d
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	2 C		RLH	JANUARY 2018



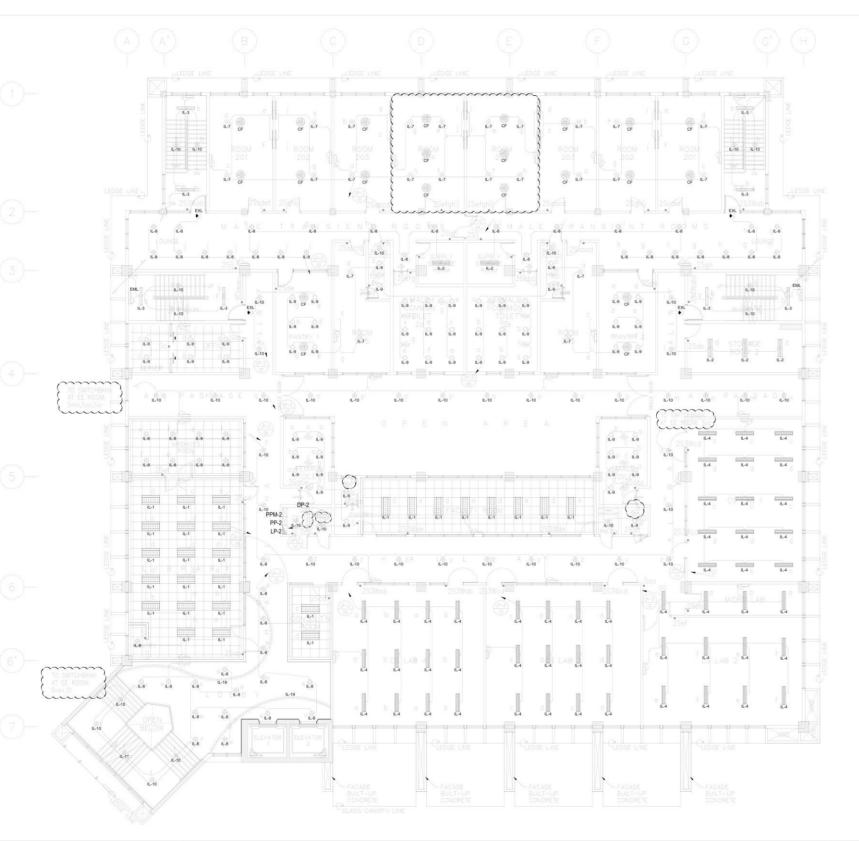
LEGENDS	DESCRIPTION
LIGHTING	
IL-1	IL-1 TROFFER LIGHTING 1 SHALL BE 2 X18 WATTS T-B COOL WHITE LED TUBE, WITH 603MM X 1213MM X 67MM HEIGHT, MIRRORIZED ALLUMINUM REFLECTOR AND MULTI-LINED SATIN FINISH ALLUMINUM LOUVERS IN POWDER-COATED PAINT FINISH, ZINC-PHOSPATE STELE SHEET HOUSING, RECESSED MOUNTED.
IL-2	IL-2 TROFFER LIGHTING 2 SHALL BE ZX 18 WATTS T-8 COOL WHITE LED TUBE, WITH 302MM X 1218MM X 75MM HEIGHT, MIRRORIZED ALUMINUM REFLECTOR AND MULTI-LINED SATIN FINISH ALUMINUM LOUVERS IN POWDER-COATED PAINT FINISH, ZIXC-PHOSPATE STEEL SHEET HOUSING, SUPFACE MOUNTED.
IL-3	IL-3 TROFFER LIGHTING 3 SHALL BE 1X 18 WATTS T-8 COOL WHITE LED TUBE, WITH 177MM X 1218MM X 75MM HEIGHT, MIRRORIZED ALLMINUM REFLECTOR AND MULTI-LINED SATIN FINISH ALLMINUM LOUVERS IN POWDER-COATED PAINT FINISH, ZINC-PHOSPATE STEEL SHEET HOUSING, SUFFACE MOUNTED.
IL-4	IL-4 TROFFER LIGHTING 4 SHALL BE 2X 18 WATTS T-8 COOL WHITE LED TUBE, WITH 250MM X 1226MM X 62MM HEIGHT, MIRROR FINISH ANOLZED ALUMINUM REFLECTOR, ZINC PHOSPHATE STEEL SHEET HOUSING HOUSING, SUSPENDED MOUNTED LOUVER LUMINAIRE WITH BEVELED PROFILE.
IL-5	IL-5 TROFFER LIGHTING 5 SHALL BE 2X 18 WATES, COOL WHITE OR DAY LIGHT, T& LED TUBE WITH 304MM X 1222MM X 100MM HBIGHT, MADE FROM ZINC PHOSPHATE STELE SHEET HOUSING IN POWDER COATED PAINT FINISH WITH PRISMATE DIFFUSER AND CASKET FOR CLEANROOM APPLICATION, SUFFACE MOUNTED.
IL-6	IL-6 OPEN TYPE TB LED SHALL BE 1 X 18 WATTS T-8 COOL WHITE LED TUBE, WITH 53MM X 1220MM X 40MM HEIGHT, ZINC-PHOSPHATE STEEL SHEET HOUSING IN POWDER COATED PAINT FINISH, SURFACE MOUNTED.
₿ IL-7	IL-7 CENTER LIGHT SHALL BE 1-24 WATTS LED, SURFACE MOUNTED WITH WHITE POWDER-COATED HOUSING WITH COVER
O IL-8	IL-8 DOWNLIGHT 1 ROUND SHALL BE 20 X 0.5 WATTS LED, COOL WHITE IN 130MM DIAMETERS CUT OUT, 140MM X 140MM X 80MM HEIGHT RECESSED MOUNTED LED DOWNLIGHT (WITH COVER) MADE FROM ALUMINUM AND SYNTHETIC MATERIAL IN FLAT RING WHITE COLOR FINISH.
O IL-9	L-9 DOWNLIGHT 2 ROUND STALL BE A ROUND STALL BE A ROUND ATTS COOL DAVLIGHT, LED BULB, IN 180MM DIAMETERS X 220MM HEIGHT, RECESSED MOUNTED DOWNLIGHT (WITHOUT GLASS COVER) WITH DIAMOND DESIGN REFLECTOR AND WHATE CELLING RIM WITH SOCKET.
(D) IL-10	IL-10 DOWNLIGHT 3 ROUND SHALL BE 1 X 12.5 WATTS COOL DAYLIGHT, LED BULB, IN 167MM DIAMETER X 194MM HEIGHT, SURFACE MOUNTED DOWNLIGHT (WITHOUT GLASS COVER) WITH DOTTED REFLECTOR AND WHITE CASING WITH E27 SOCKET.
HL-11	IL-11 DOWNLIGHT 4 ROUND SHALL BE 19 WATTS LED, WARN WHITE IN 111MM DIAMETERS X 160MM SURFACE MOUNTED, MADE FRO DIE CAST ALUMINUM WITH CENTRAL HOUSING MADE FROM EXTRUDED ALUMINUM COMPLETE WITH SAFET GLASS, SULCON GASKET WITH EXTERNAL SOREWS MADE OF STAILESS STEEL
<b>⊗</b> IL-12	IL-12 DOWNLIGHT 5 SHALL BE 10 WATTS LED WITH BEAM ANGLE 90, WITH COLOR TEMP OF 3000K , IN 108MM DIAMETERS X 108MM HEIGHT, RECESSED MOUNTED
IL-13	IL-13 DOWNLIGHT 6 SHALL BE 25 WATTS LED 90' 3000K WARM WHITE 2500 LUMENS, 211MM X 211MM X 97MM HEIGHT RECESSED MOUNTED LED DOWNLIGHT WITH DIFFUSER
<b>O</b> IL-14	IL-14 DOWNLIGHT 7 SHALL BE 37 WATTS LED 45' 3000K WARM WHITE 3000 LUMENS, IN 187MM DIAMETERS CUT OUT 219MM X 219MM X 112MM HEIGHT RECESSED MOUNTED LED DOWNLIGHT
0 IL-15	IL-15 DOWNLIGHT 8 SHALL BE 54 WATTS LED 45' 3000K WARM WHITE 4500 LUMENS, IN 187MM DIAMETERS CUT OUT 219MM X 191MM X 156MM HEIGHT RECESSED MOUNTED LED DOWNLIGHT
IL-16	IL-16 SUSPENDED TRACK LIGHT SHALL BE 40 WATTS LED 38 3000K WARM WHITE 4280 LUMENS, IN SUSPENDED TRACKS
IL-17	IL-17 SMART BLUETOOTH ADJUSTABLE RECESSED SPOTUCHTS SHALL BE 47(60) WATTS LED 10-30' 3000K WARM WHITE 2720-3080 LUMENS, ADJUSTABLE BEAM ANGLES
IL-18 😥	IL-18 STACE LIGHT SHALL BE IN WATTS LED LIGHTS, WITH BEAM ANGLE OF 35' OR 60' IN PROJECTION ANGLE, RECESSED MOUNTED MADE FROM DIE CAST ALUMINUM IN CHROME OR BLACK FINISH. IL-19 LED STRIPS
IL-19	SHALL BE 9.6 WATTS/METERS, WARM WHITE LED STRIPS LIGHT, WITH BEAM ANGLE OF 110' AND 941/M LUMENS, IN 12MM X 5.5MM HEIGHT, SURFACE MOUNTED FOR COVED LIGHTING. PROVIDE 6MM THICK ACTYLIC COVER IN WHITE OPAQUE FINISH FOR COVE LIGHTING.
	IL-20 EMERGENCY LIGHT SHALL BE 3 WATTS LED 44 X 0.7WATTS (22 LEDS/LAMP HEAD), WALL MOUNTED EMERGENCY LIGHT MADE FROM ABS PLASTICS WITH 5 HOURS OPERATING TIME AND 48 HOURS CHARGING TIME.
exil Ø	IL-21 EXIT LIGHT SHALL BE 2 WATTS, DOUBLE-SIDED, CEILING-MOUNTEDLED LAMPS IN ELECTRO GALVANIZED STEEI WITH EPOXY POWDER-COATED FITTING CONSTRUCTION AND FIRE-RETARDANT MOULDED ACRYLIC DIFFUSER.
HIL-22	IL-22 WALL MOUNTED LAMP SHALL BE 20 WATTS, LED-PAR 30 WARM WHITE, WALL MOUNTED LUMINAIRE MADE FROM DIE-CAST ALUMINUM BODY IN POWDER-COATED FINISH WITH CLEAR TOUCHENED GLASS CONTROL CEAR AND REWOTE TRANSFORMER GASKET SULCON RUBBER MOUNTING SURFACE.
⊕ IL-23	IL-23 MIGH BAY LIGHTS SHALL BE 40/50 WATTS COOL WHITE, LED LIGHTS BY "SAMSUNG" OR APPROVED EQUAL, IN 495MM DIAMETER X 400MM HEIGHT, HIGH BAY LUMINAIRES IN ALUMINUM REFLECTOR AND HOUSING.
IL-24	$ L-24$ HiGH BAY LIGHTS (FOR COVE LIGHTING $\oplus$ ANTE ROOM) SHALL BE 10 WATTS BLUE AND WARK WHITE LED STRIP LIGHTS WITH 18 TO 20 LM, IN 10MM; 15.BMM X 7MM CROSS SECTION, ONE ROLL = 100M, 60 LIGHTS PER 1 METER, COMPLETE WITH ACCESSORES, SUPERACE MOUNTED FOR COVED LIGHTING.
ØH IL-25	IL-25 CIRCULAR WALL LAMP (FOR OBSERVATORY ROOM) SHALL BE & WATTS, RED COLOR, LED BULB IN JOOMN DIAMETERS WALL MOUNTED CIRCULAR LAM MARE OF POLYCRARRONATE BASE, RING AND DIFLORT WITH HIGH SULCONE SEAL FOR IS 65
⊖ IL-26	IL-26 DOWNLIGHT 9 ROUND SHALL BE 28 WATTS LED, WARM WHITE IN 111MM DIAMETERS X 160MM SURFACE MOUNTED, MADE FROI DIE CAST ALUMINUM WITH CENTRAL FORMS MADE FROM EXTRUDED ALUMINUM COMPLETE WITH SAFET GLASS, SULCON GASKET WITH EXTERNAL SOFEWS MADE OF STAILESS STEEL
•50	ONE-GANG SWITCH
•2Sab	TWO-GANG SWITCH
•3Sobc	THREE-GANG SWITCH
•S3Wa	THREE-WAY SWITCH
SB	SWITCHBANK
	LIGHTING PANEL
	POWER PANEL
	CIRCUIT HOMERUN
1 C	
(M)	AA - DENOTES PANEL DESIGNATION
-	00 - DENOTES CIRCUIT NUMBER
CUP	RISER UP
00	RISER UP/DN
- DN	RISER DN
<u>/@/</u>	TOILET EXHAUST FAN
0	JUNCTION BOX

A E3 010 SCALE

GROUND FLOOR LIGHTING SYSTEM LAYOUT 1 : 125M

	SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
-	GROUND FLOOR	REV-2 PANELBOARD	LOCATION (NOV2018)		
	LIGHTING SYSTEM LAYOUT	REV-3 LIGHTING FIXT	URE IL-26 (FEB2022)		
		REV-3 LOCATION OF	SWITCH (FEB2022)	17-06	E3-01a
		REV-4 ADDTL. EL @ E	E RM (JAN2023)	17-00	E3-010
		DESIGNED BY:	CAD:	CHECKED BY:	DATE:
				RLH	

**NOTE:** ELECTRICAL WORK SCOPE INCLUDES PANEL BOARD INSTALLATION, **CABLING AND** LIGHTING **FIXTURES** INSTALLATION FROM THE GROUND FLOOR UP TO THE FOURTH FLOOR ONLY. SAME SCOPE FOR TRANSIENT **AREA ALREADY** ACCOMPLISHED FOR PHASE 2



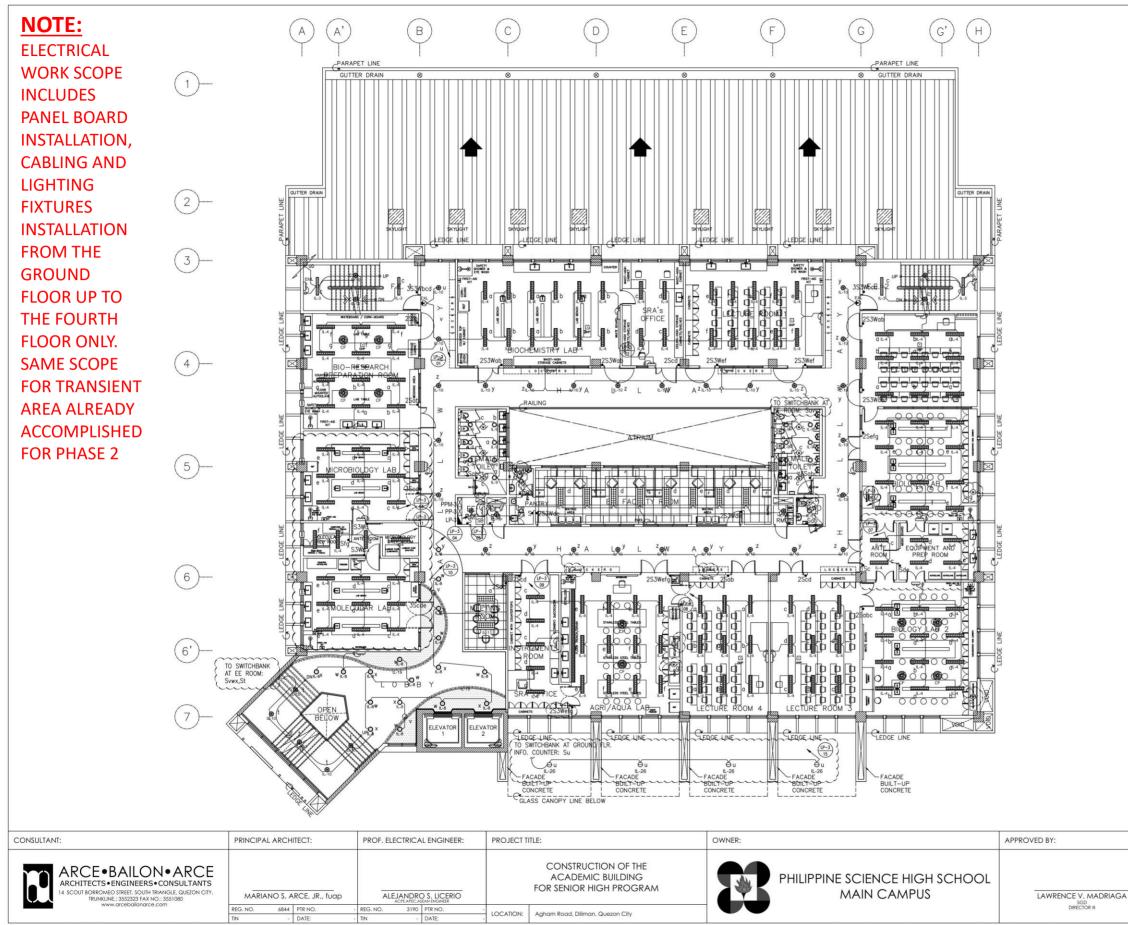
CONSULTANT:	PRINCIPA	L ARCH	ITECT:	PROF. ELE	CTRICAL ENGINEER:	PROJECT	TITLE:	OWNER:		APPROVED BY:
ARCE • BAILON • ARCE ARCHITECTS • ENGINEERS • CONSULTANTS 14 SCOUT BORFOMED STREET, SOUTH TRIANGLE, QUEZON CITY. TRUNKLINE: 3552232 FAX NO: 3551080 vww.orcebolinorgec.com	MARIA	ano s. a	RCE, JR., fuap	ALE	JANDRO S. LICERIO		CONSTRUCTION OF THE ACADEMIC BUILDING FOR SENIOR HIGH PROGRAM	<b>A</b>	PHILIPPINE SCIENCE HIGH SCHOOL MAIN CAMPUS	LAWRENCE V. MADRIAGA
www.cicebdilondice.com	REG. NO.	. NO. 6844 PTR NO	- REG. NO.	3190 PTR NO.	-	had been finand Different Owners Offic		/	SGD DIRECTOR III	
	TIN		DATE:	- TIN	- DATE:	- LOCATION:	Agham Road, Diliman, Quezon City			

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# FOR BIDDING

IL-1	
IL-2	
IL-3	
IL-4	
IL-5	
IL-6	
⊗ IL-7	
∰ IL-8	
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() IL-10	
⊖ IL-11	
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IL-13	
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) IL-15	
IL-16	
IL-17	
IL-18	
IL-19	
EXL ●	
IL-22	
IL-23	
IL-24	
	Housdoonics, and when the work the form of the other many II-25 CREATER WALL LAW (FOR OBSERVATORY ROOM) SHALL BE 8 WATS, RED COLOR, LED BULB IN JOOM DIAMETERS WALL MOUNTED CREALER SHALE BE PORT CREATER REF. RES. ON DUE TO THE WITH THE SHORE BALF TO THE SALE.
 IL-26	IL-28 DOMNIGHT & ROUND SHALL BE 28 WATS LED, WARI WHTE IN THMI DIAMETERS Y MOON SURFACE MODITED. MADE FRA DE CAST AUMINIA WHY CHTMAL MOUNDE MADE FRAM EXTRUDED AUMINIAL COMPLETE WHY SAFE GASS, SUICON GASKET WITH EXTERNAL SCREWS MADE OF STAMLESS STEEL
$\sim$	
•2Sob	
•3Sabc •93Wa	
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"UP	

SHEET CONTENTS: PROJECT NO .: SHEET NO .: **REVISION:** SECOND FLOOR REV-3 LOCATION OF SWITCH (FER2) LIGHTING SYSTEM LAYOU REV-4 ADDTL EL @ EE & ELV RM [JA REV-5 CHANGES AT ROOM 204 FURNITURE LAYOUT (JAN2023)Z E 17-06 E3-01b DESIGNED BY: CAD: CHECKED BY: DATE: RLH



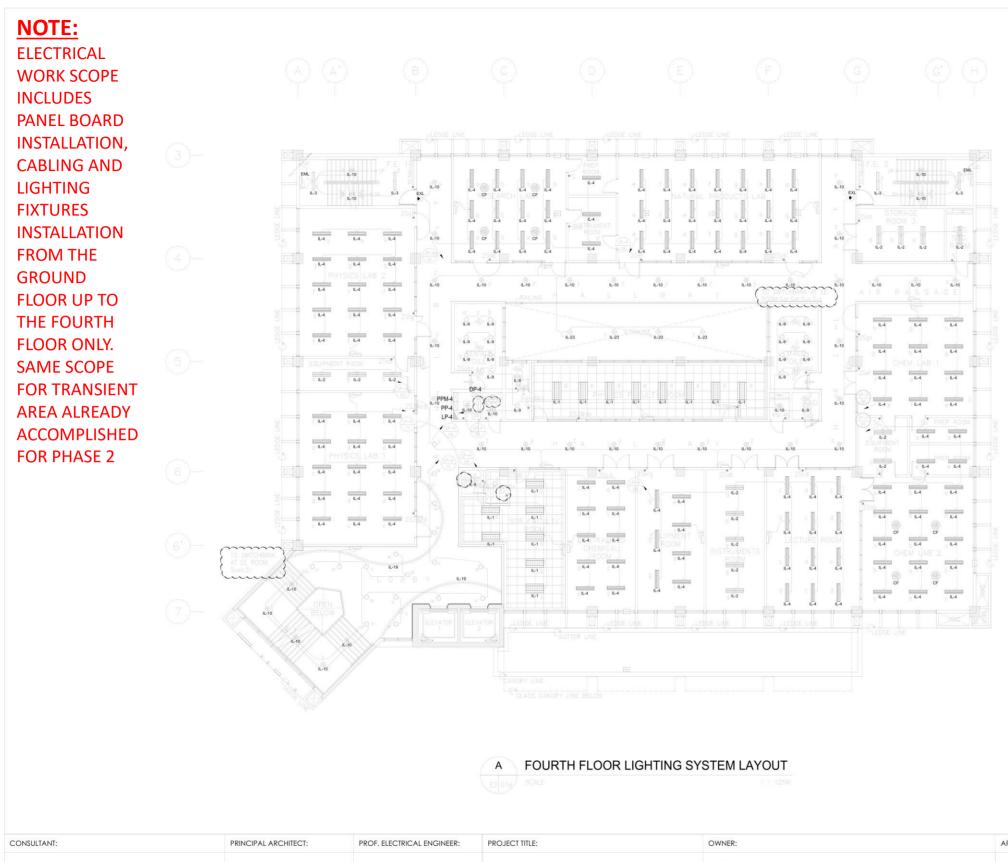
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FOFUDO	2500012301
EGENDS	DESCRIPTION
IGHTING F	IL-1 TROFFER LIGHTING 1
	SHALL BE 2 X 18 WATTS T-8 COOL WHITE LED TUBE, WITH 603MM X 1213MM X 67MM HEIGHT MIRRORIZED ALUMINUM REFLECTOR AND MULTI-LINED SATIN FINISH ALUMINUM LOUVERS IN POWDER-COATED PAINT FINISH, ZINC-PHOSPATE STEEL SHEET HOUSING, RECESSED MOUNTED.
IL-1	POWDER-COATED PAINT FINISH, ZINC-PHOSPATE STEEL SHEET HOUSING, RECESSED MOUNTED.
	IL-2 TROFFER LIGHTING 2
IL-2	SHALL BE 2 X 18 WATTS T-8 COOL WHITE LED TUBE, WITH 302MM X 1218MM X 75MM HEIGHT MIRRORIZED ALUMINUM REFLECTOR AND MULTI-LINED SATIN FINISH ALUMINUM LOUVERS IN POWDER-COATED PAINT FINISH, ZINC-PHOSPATE STEEL SHEET HOUSING, SURFACE MOUNTED.
IL-3	STALL BE I X 18 WATTS T-8 COOL WHITE LED TUBE, WTH 177MM X 1218MM X 75MM HEIGHT, MRRORIZED ALUMINUM REFLECTOR AND MULTI-LINED SATIN FINISH ALUMINUM LOUVERS IN POMOER-COATED PAINT FINISH, ZINC-PHOSPATE STEEL SHEET HOUSING, SURFACE MOUNTED.
	POWDER-COATED PAINT FINISH, ZINC-PHOSPATE STEEL SHEET HOUSING, SURFACE MOUNTED.
IL-4	SHALL BE 2 X 18 WATTS T-8 COOL WHITE LED TUBE, WITH 250MM X 1226MM X 62MM HEIGHT MIRROR FINISH ANDOLZED ALUMINUM REFLECTOR, ZINC PHOSPHATE STELL SHEET HOUSING HOUSING, SUSPENDED MOUNTED LOUVER LUMINAIRE WITH BEVELED PROFILE.
s2	IL-5 TROFFER LIGHTING 5
IL-5	L=5 TROFFER LIGHTING 5 SHALL BE 2 x 18 WATTS, COOL WHITE OR DAY LIGHT, TB LED TUBE WTH 304MM X 1222MM X 1000 HEIGHT, MADE FROM ZINC PHOSPHATE STEEL SHEET HOUSING IN POWDER COATED PAINT FINISH WT PRISMATIC DIFFUSER AND GASHET FOR CLEANDOM APPLICATION, SUPRACE MOUNTED.
	PRISMATIC DIFFUSER AND GASKET FOR CLEANROOM APPLICATION, SURFACE MOUNTED.
IL-6	IL-6 OPEN TYPE TB LED. SHALL BE 1 X 18 WATTS T-8 COOL WHITE LED TUBE, WITH 53MM X 1220MM X 40MM HEIGHT, ZINC-PHOSPHATE STEEL SHEET HOUSING IN POWDER COATED PAINT FINISH, SURFACE MOUNTED.
1.000	ZINC-PHOSPHATE STEEL SHEET HOUSING IN POWDER COATED PAINT FINISH, SURFACE MOUNTED.
⊗ IL-7	SHALL BE 1-24 WATTS LED, SURFACE MOUNTED WITH WHITE POWDER-COATED HOUSING WITH COVER
~	IL-8 DOWNLIGHT 1 ROUND SHALL BE 20 X 0.5 WATTS LED, COOL WHITE IN 130MM DIAMETERS CUT OUT, 140MM X 140MM BOMM HEIGHT RECESSED MOUNTED LED DOWNLIGHT (WITH COVER) MADE FROM ALUMINUM AND SYNTHETIC MATERIAL IN FLAT RING WHITE COLOR FINISH.
O IL-8	SHALL BE 20 X 0.5 WATTS LED, COOL WHITE IN 130MM DIAMETERS CUT OUT, 140MM X 140MM 80MM HEIGHT RECESSED MOUNTED LED DOWNLIGHT (WITH COVER) MADE FROM ALUMINUM AND
0	IL-9 DOWNLIGHT 2 ROUND SHALL BE 1 X 12.5 WATTS COOL DAYLIGHT, LED BULB, IN 180MM DIAMETERS X 220MM HEIGHT
IL-9	WHITE CEILING RIM WITH SOCKET.
	IL-10 DOWNLIGHT 3 ROUND
(D) IL-10	IL-10 DOWNLIGHT 3 ROUND SHALL BE 1 X 12.5 WATTS COOL DAYLIGHT, LED BULB, IN 167MM DIAMETER X 194MM HEIGHT, SUFFACE MOUNTED DOWNLIGHT (WITHOUT GLASS COVER) WITH DOTTED REFLECTOR AND WHITE
	CASING WITH E27 SUCKET.
A	IL-11 DOWNLIGHT 4 ROUND SHALL BE 19 WATTS LED, WARM WHITE IN 111MM DIAMETERS X 160MM SURFACE MOUNTED, MADE FR DIE CAST ALUMINUM WIT CENTRAL HOUSING MADE FROM EXTRUDED ALUMINUM COMPLETE WITH SAF GLASS, SILICON GASKET WITH EXTERNAL SCREWS MADE OF STAINLESS STEEL.
HL-11	DIE CAST ALUMINUM WITH CENTRAL HOUSING MADE FROM EXTRUDED ALUMINUM COMPLETE WITH SAF
528	GLASS, SILICON GASKET WITH EXTERNAL SCREWS MADE OF STAINLESS STEEL.
₿ IL-12	IL-12 DOWNLIGHT 5 SHALL BE 10 WATTS LED WITH BEAM ANGLE 90', WITH COLOR TEMP OF 3000K , IN 108MM DIAMETERS X 108MM HEIGHT, RECESSED MOUNTED
	IL-13 DOWNLIGHT 6
IL-13	HALL BE 25 WATTS LED 90" 3000K WARM WHITE 2500 LUMENS, 211MM X 211MM X 97MM HEIGHT RECESSED MOUNTED LED DOWNLIGHT WITH DIFFUSER
	II - 14 DOWNIGHT 7
0	SHALL BE 37 WATTS LED 45' 3000K WARM WHITE 3000 LUMENS, IN 187MM DIAMETERS CUT OI 219MM X 219MM X 112MM HEIGHT RECESSED MOUNTED LED DOWNLIGHT
	II -15 DOWNIGHT 8
0 IL-15	SHALL BE 54 WATTS LED 45' 3000K WARM WHITE 4500 LUMENS, IN 187MM DIAMETERS CUT OI 219MM X 219MM X 156MM HEIGHT RECESSED MOUNTED LED DOWNLIGHT
101	
IL-16	IL-16 SUSPENDED TRACK LIGHT SHALL BE 40 WATTS LED 38" 3000K WARM WHITE 4280 LUMENS, IN SUSPENDED TRACKS
IL-17	IL-17 SMART BLUETOOTH ADJUSTABLE RECESSED SPOTLIGHTS SHALL BE 47(60) WATTS LED 10-30° 3000K WARM WHITE 2720-3080 LUMENS, ADJUSTABLE
12-17	BEAM ANGLES
IL-18 😥	IL-18 STAGE LIGHT SHALL BE 110 WATTS LED LIGHTS, WITH BEAM ANGLE OF 35' OR 60' IN PROJECTION ANGLE, RECESSED MOUNTED MADE FROM DIE CAST ALUMINUM IN CHROME OR BLACK FINISH.
	RECESSED MOUNTED MADE FROM DIE CAST ALUMINUM IN CHROME OR BLACK FINISH.
	IL-19 LED STRIPS SHALL BE 9.6 WATTS/METERS, WARM WHITE LED STRIPS LIGHT, WITH BEAM ANGLE OF 110" ANI
IL-19	SHALL BE 9.6 WATTS/METERS, WARM WHITE LED STRIPS LIGHT, WITH BEAM ANGLE OF 110" ANI 941/M LUMENS, IN 12MM X 5.5MM HEIGHT, SURFACE MOUNTED FOR COVE LIGHTIG. PROVIDE 6MM THICK ACRYLIC COVER IN WHITE OPAQUE FINISH FOR COVE LIGHTING.
	IL-20 EMERGENCY LIGHT
EML	SHALL BE 3 WATTS LED 44 X 0.7WATTS (22 LEDS/LAMP HEAD), WALL MOUNTED EMERGENCY LIGHT MADE FROM ABS PLASTICS WITH 5 HOURS OPERATING TIME AND 48 HOURS CHARGING TIME.
EXL	III - 21 FYIT LIGHT
Ø	SHALL BE 2 WATTS, DOUBLE-SIDED, CEILING-MOUNTEDLED LAMPS IN ELECTRO GALVANIZED STI WITH EPOXY POWDER-COATED FITTING CONSTRUCTION AND FIRE-RETARDANT MOULDED ACRYLIC
0002	DIFFUSER.
⊕I IL-22	L-22 WALL MOUNTED LAMP SHALL BE 20 WATTS, LED-PAR 30 WARM WHITE, WALL MOUNTED LUMINAIRE MADE FROM DE-CAST ALUMINUM BODY IN POWDER-COATED FINISH WITH CLEAR TOUGHENED GLASS CONTRI
IL-22	DIE-CAST ALUMINUM BODY IN POWDER-COATED FINISH WITH CLEAR TOUGHENED GLASS CONTRI GEAR AND REMOTE TRANSFORMER GASKET SILICON RUBBER MOUNTING SURFACE.
<b>^</b>	I - 23 HIGH BAY LIGHTS
⊕ IL-23	SHALL BE 40/50 WATTS COOL WHITE, LED LIGHTS BY "SAMSUNG" OR APPROVED EQUAL, IN 495MM DIAMETER X 400MM HEIGHT, HIGH BAY LUMINAIRES IN ALUMINUM REFLECTOR AND
	HOUSING.
••••	IL-24 HIGH BAY LIGHTS (FOR COVE LIGHTING @ ANTE ROOM) SHALL BE 10 WATTS BLUE AND WARM WHITE LED STRIP LIGHTS WITH 18 TO 20 LM. IN 10MM:
IL-24	SHALL BE 10 WATTS BLUE AND WARM WHITE LED STRIP LIGHTS WITH 18 TO 20 LM, IN 10MM; 15.8MM X 7MM CROSS SECTION, ONE ROLL = 100M, 60 LIGHTS PER 1 METER, COMPLETE WITH ACCESSORES, SURFACE MOUNTED FOR COVED LIGHTING.
0.	IL OF CIDCULAR WALL LAND (FOR ODSEDVATORY DOON)
ØH IL-25	IL-23 CIRCULAR WALL LAW (FOR USERVATION ROOM) SHALL BE & WATTS, EAD COLOR, LED BULB IN 300MM DIAMETERS WALL MOUNTED CIRCULAR L MADE OF POLYCARBONATE BASE, RING AND DIFFUSER WITH HIGH SILICONE SEAL FOR IP 65.
$\sim$	II - 26 DOWNLIGHT & ROLIND
e e	SHALL BE 28 WATTS LED, WARM WHITE IN 111MM DIAMETERS X 160MM SURFACE MOUNTED, MADE FF DIE CAST ALUMINUM WITH CENTRAL HOUSING MADE FROM EXTRUDED ALUMINUM COMPLETE WITH SAF
IL-26	GLASS, SILICON GASKET WITH EXTERNAL SCREWS MADE OF STAINLESS STEEL.
-S0	ONE-GANG SWITCH
•2Sab	TWO-GANG SWITCH
•3Sabc	THREE-GANG SWITCH
•S3Wa	THREE-WAY SWITCH
SB	SWITCHBANK
	LIGHTING PANEL
$\boxtimes$	POWER PANEL
~	CIRCUIT HOMERUN
A	AA - DENOTES PANEL DESIGNATION
00	00 - DENOTES CIRCUIT NUMBER
°UP	RISER UP
	RISER UP/DN
00	
A PON	RISER DN
	RISER DN TOILET EXHAUST FAN

A E3 01c/ THIRD FLOOR LIGHTING SYSTEM LAYOUT SCALE

1 : 125M

SHEET CONTENTS: REVISION: PROJECT NO .: SHEET NO .: THIRD FLOOR LIGHTING SYSTEM LAY 17-06 E3-01c HECKED BY: RLH

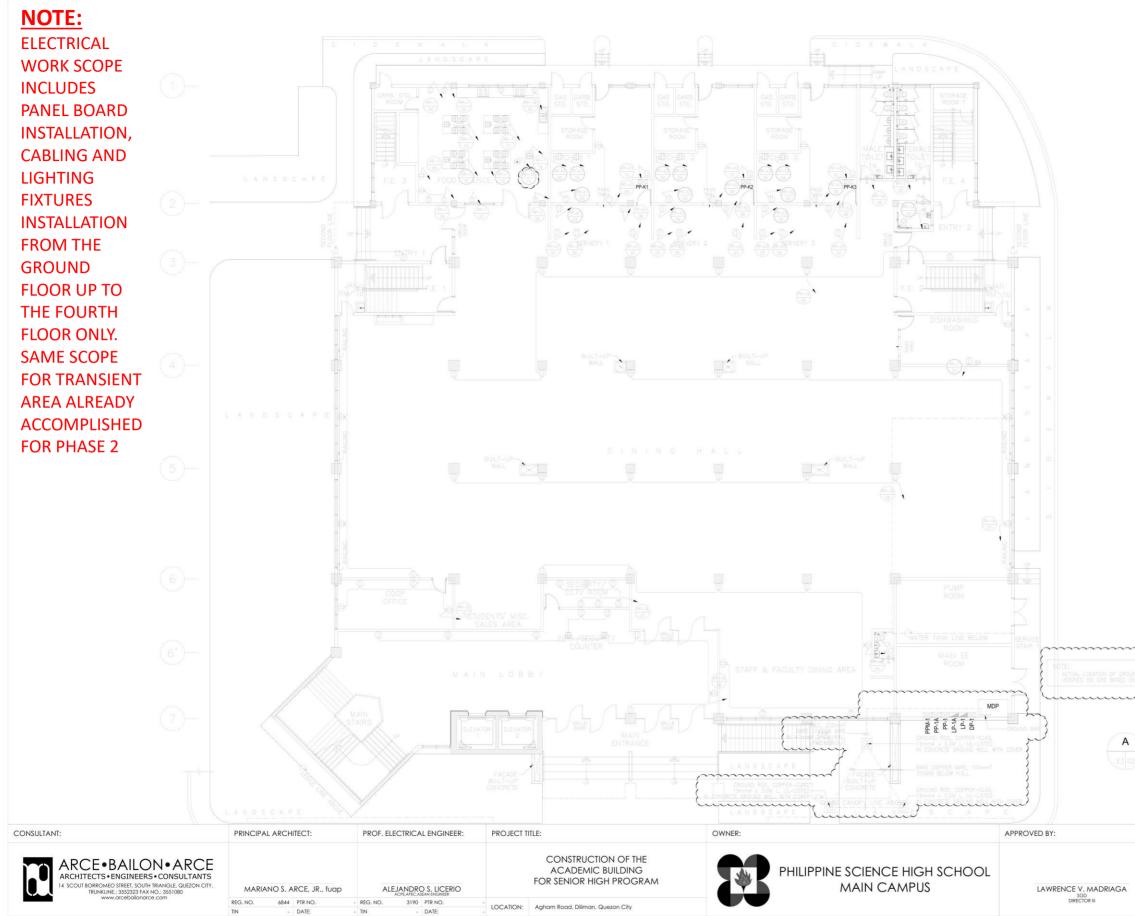


CONSULTANT:	PRINCIPAL A	ARCHITECT:	PROF. ELEC	TRICAL ENGINEER:	PROJECT 1	TITLE:	OWNER:		APPROVED BY:
ARCE • BAILON • ARCE ARCHITECTS • ENGINEERS • CONSULTANTS 14 SCOUT BORFOMED STREET. SOUTH TRANCLE, QUEZON CITY, TRUNKLIME: 3552323 FAX NO: 3551080 www.arcebolionarce.com		D S. ARCE, JR., fuap	ACP	NDRO S. LICERIO		CONSTRUCTION OF THE ACADEMIC BUILDING FOR SENIOR HIGH PROGRAM	*	PHILIPPINE SCIENCE HIGH SCHOOL MAIN CAMPUS	LAWRENCE V. MADRIAGA
	REG. NO. 6844 PTR NO REG. NO. 319		3190 PTR NO.	- LOCATION:	Agham Road, Diliman, Quezon City			DIRECTOR	
	TIN	- DATE:	- TIN	- DATE:	- LOCATION.	Agriant koda, Dilinan, Quezon City			

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L-2 L-2 L-3 L-4 L-5 L-5 L-5 L-6 L-7 L-7 L-8 L-8 L-8	
L-2 L-2 L-3 L-4 L-5 L-5 L-5 L-6 L-7 L-7 L-8 L-8 L-8	
L-2 L-3 L-4 L-5 L-6 L-6 L-7 L-8 L-8 L-9	
L-4 L-5 L-5 L-7 L-8 L-9	
L-4 L-5 L-5 L-7 L-8 L-9	
L-5 L-6 K-7 H-8 IL-8 IL-9	
1L-7 ∰ IL-8	
1L-7 ∰ IL-8	
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() IL-13	
11.14	
IL-15	
IL-16	
IL-17	
IL-18	
IL-19	
EXL •	
IL-22	
IL-23	
IL-24	
0- IL-25	IL-25 ORCULAR WALL LAMP (FOR GREERVATORY ROOM) SHALL BE & NATUS, RED COLOR, LED BUE IN 200MM DIAMETERS WALL MOUNTED DROULAR DAM
JL-26	
1L-20	GLASS, SULCON GASKET WITH EXTERNAL SCREWS MADE OF STANLESS STEEL
~	

SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
FOURTH FLOOR	BCV_SUGATING RIX REV-3LOCATION OD REV-4 ADJUSED EL REV-4 ADDTL EL 8 1	URE IL-26 (FEB2022) SWITCH (FEB2022) OCCATION (JAN2023) E & ELV RM (JAN2023)	17-06	E3-01d
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
			RLH	



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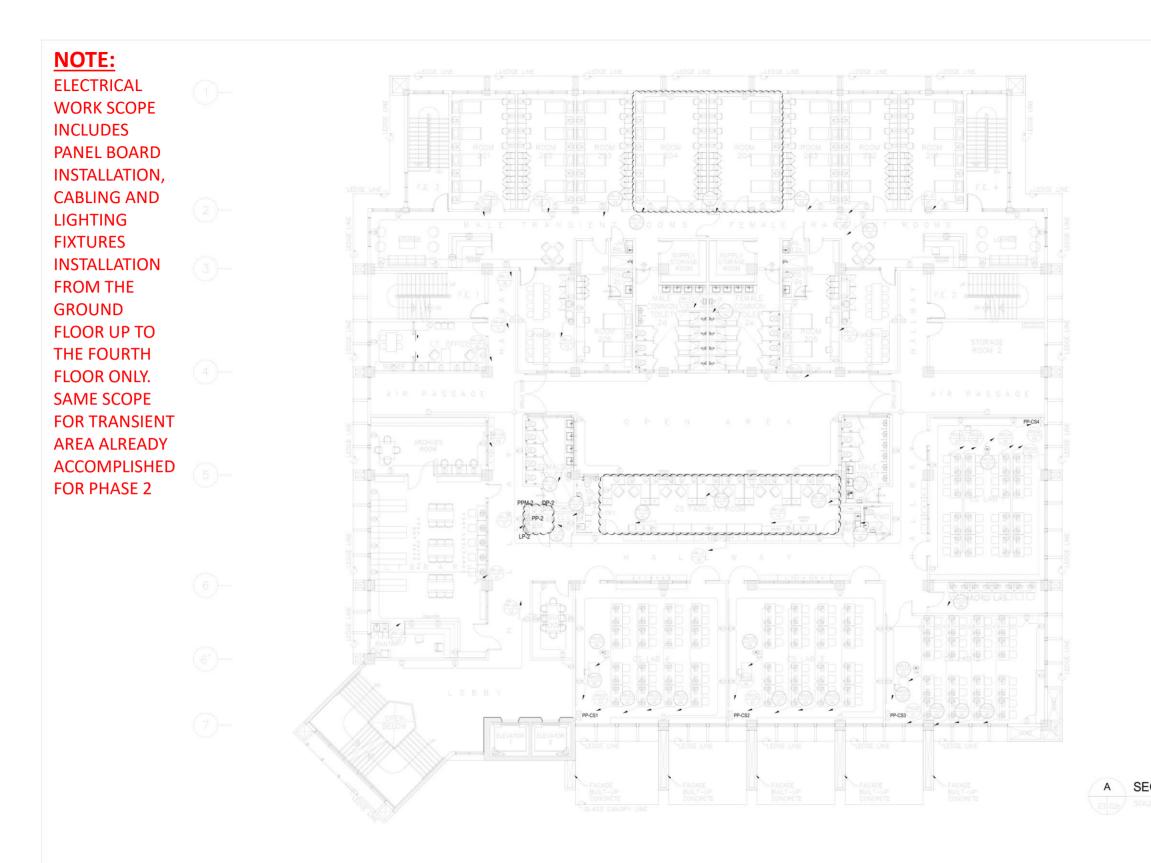




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### GROUND FLOOR POWER SYSTEM LAYOUT

SHEET CONTENTS: **REVISION:** PROJECT NO .: SHEET NO .: GROUND FLOOR RL-GROUNDIN POWER SYSTEM LAYOU 17-06 E3-02a CHECKED BY: DESIGNED BY: CAD: RLH

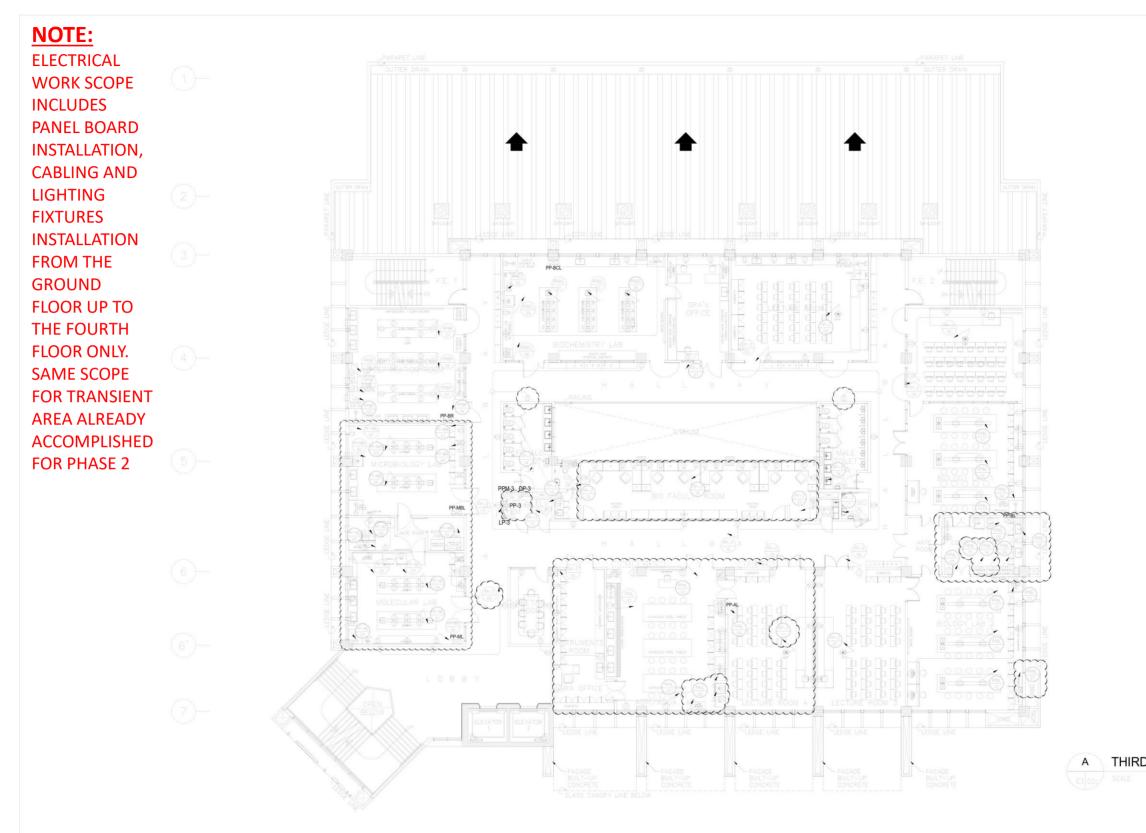


CONSULTANT:	PRINCIPAL	ARCH	IITECT:	PROF. ELE	ECTRICAL EN	GINEER:	PROJECT T	ITLE:	OWNER:		APPROVED BY:
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www.dicebdilondice.com	REG. NO.	6844	PTR NO.	- REG. NO.	3190 PTR N	D.	-	Asham Read Dilmon Queren City			DIRECTOR III
	TIN	- DATE: - TIN - DATE:			LOCATION: Agham Road, Diliman, Quezon City						



### A SECOND FLOOR POWER SYSTEM LAYOUT

SHEET CONTENTS: REVISION: PROJECT NO .: SHEET NO .: SECOND FLOOR POWER SYSTEM LAYOUT 17-06 E3-02b CHECKED BY: DESIGNED BY: CAD: DATE: RLH



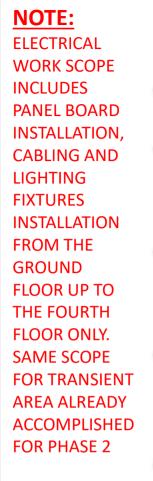
CONSULTANT:	PRINCIPAL ARCHITECT:	PROF. ELECTRICAL ENGINEER:	PROJECT TITLE:	OWNER:	APPROVED BY:
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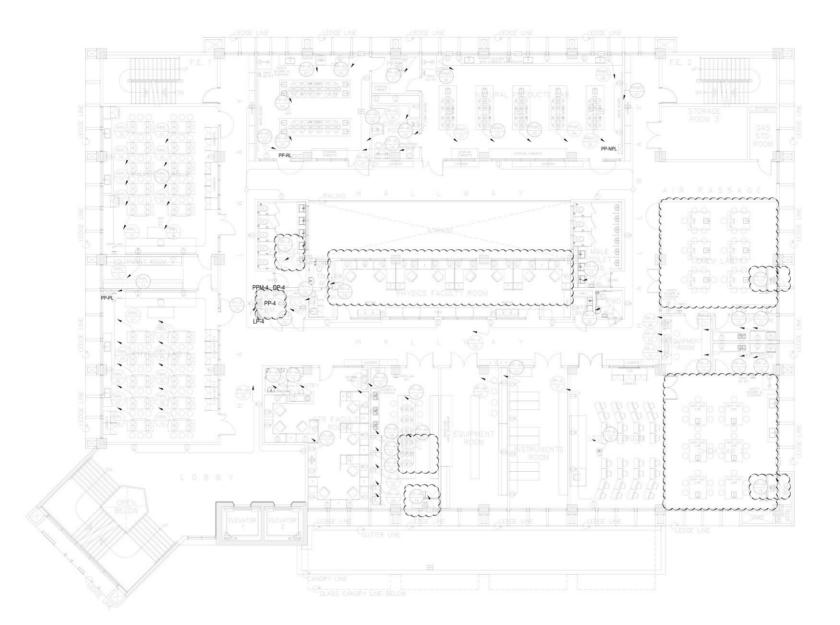


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### A THIRD FLOOR POWER SYSTEM LAYOUT

SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
THIRD FLOOR	REV-1 MICROBIOLOGY L ROOM SWAP & POWER	LAB & MOLECULAR LAB LAYOUT SWAP (FEB 2022)		
POWER SYSTEM LAYOUT	REV-1 EQUIPMENT ROOM POWER LAYOUT ADJUST	M W/ ANTE ROOM	17-06	E3-02c
	REV-1 HALLWAY POWER & CORRECTED CIRCUIT			
	REV-2 BIO FACULTY ROC ADJUSTMENT INOV 2022			
	REV-3 AGRI/AQUA LAB. BIOLOGY LAB 2. EQUIPM			
	POWER LAYOUT ADJUSTMENT (JAN 2023) REV-4 ADDTL OUTLETS III ELV ROOM (JAN2023)			
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
			RLH	





A FOUF

CONSULTANT:	PRINCIPA	AL ARCHI	TECT:	PROF. EL	ECTRICAL ENGINEER:	PROJECT	TITLE:	OWNER:		APPROVED BY:
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www.circebdilondice.com	REG. NO.	6844	PTR NO.	- REG. NO.	3190 PTR NO.	LOCATION:	Agham Road, Diliman, Quezon City			SGD DIRECTOR III
	TIN	100	DATE:	- TIN	- DATE:	LOCATION.	Agnum kodu, Dilimun, Quezon City			

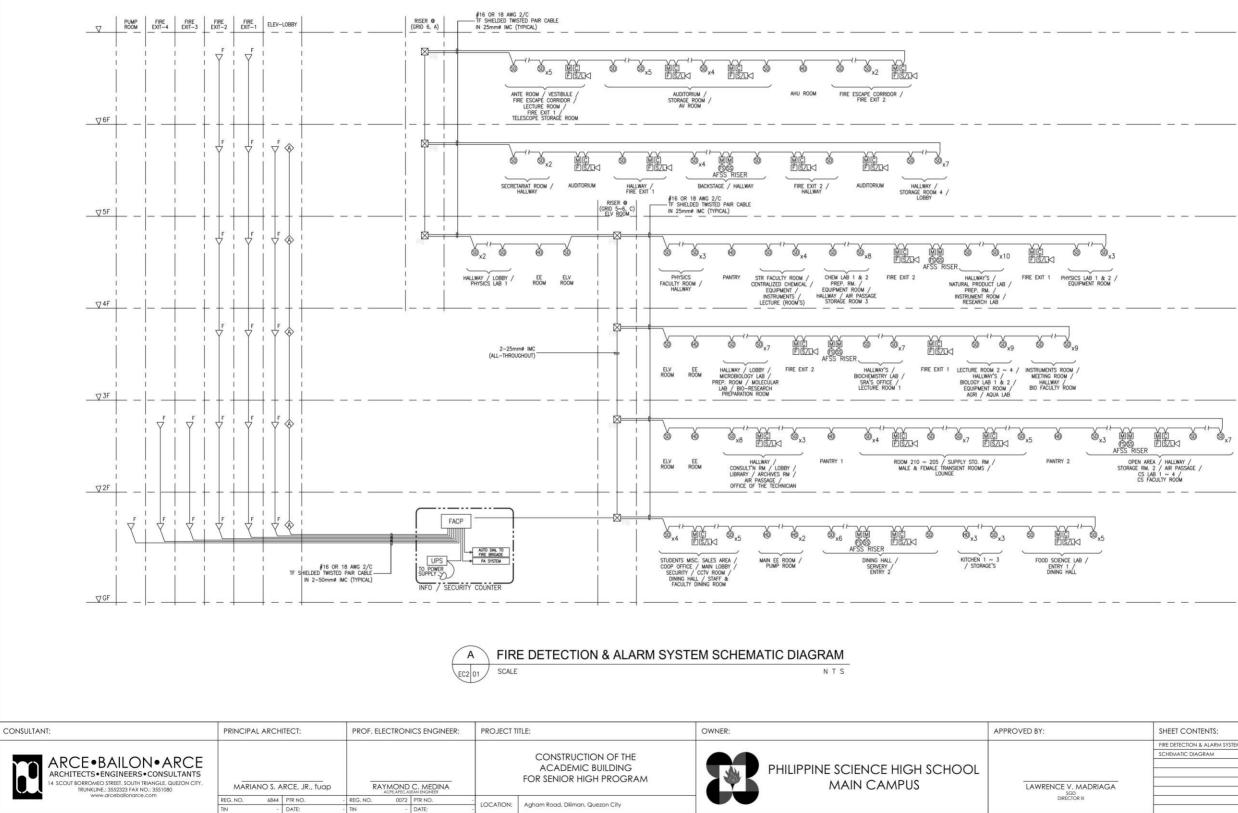


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### A FOURTH FLOOR POWER SYSTEM LAYOUT

SHEET CONTENTS: REVISION: PROJECT NO.: SHEET NO.: FOURTH FLOOR REVISION: POWER SYSTEM LAYOUT REVIEW FOR THE PROVEMENT F

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## FOR BIDDING

LEGENDS	DESCRIPTION					
FACP	FIRE ALARM CONTROL PANEL					
UPS	230V, 1Ø, UPS, 15MIN BACK-UP (RATING AS INDICATED)					
60	SMOKE DETECTOR					
Ð	HEAT DETECTOR					
6	FLOW SWITCH					
\$	SUPERVISORY SWITCH					
F	MANUAL PULL STATION					
C	CONTROL MODULE					
м	MONITOR MODULE					
S/LK	FIRE ALARM SOUNDER WITH STROBE LIGHT					
$\otimes$	GRAPHICAL ANNUNCIATOR					
$\nabla_{\!\!F}$	FIREMAN'S TELEPHONE JACK					
⊠ <sub>PB</sub>	PULLBOX (250x250x150)MM					

ABBREVIATIONS

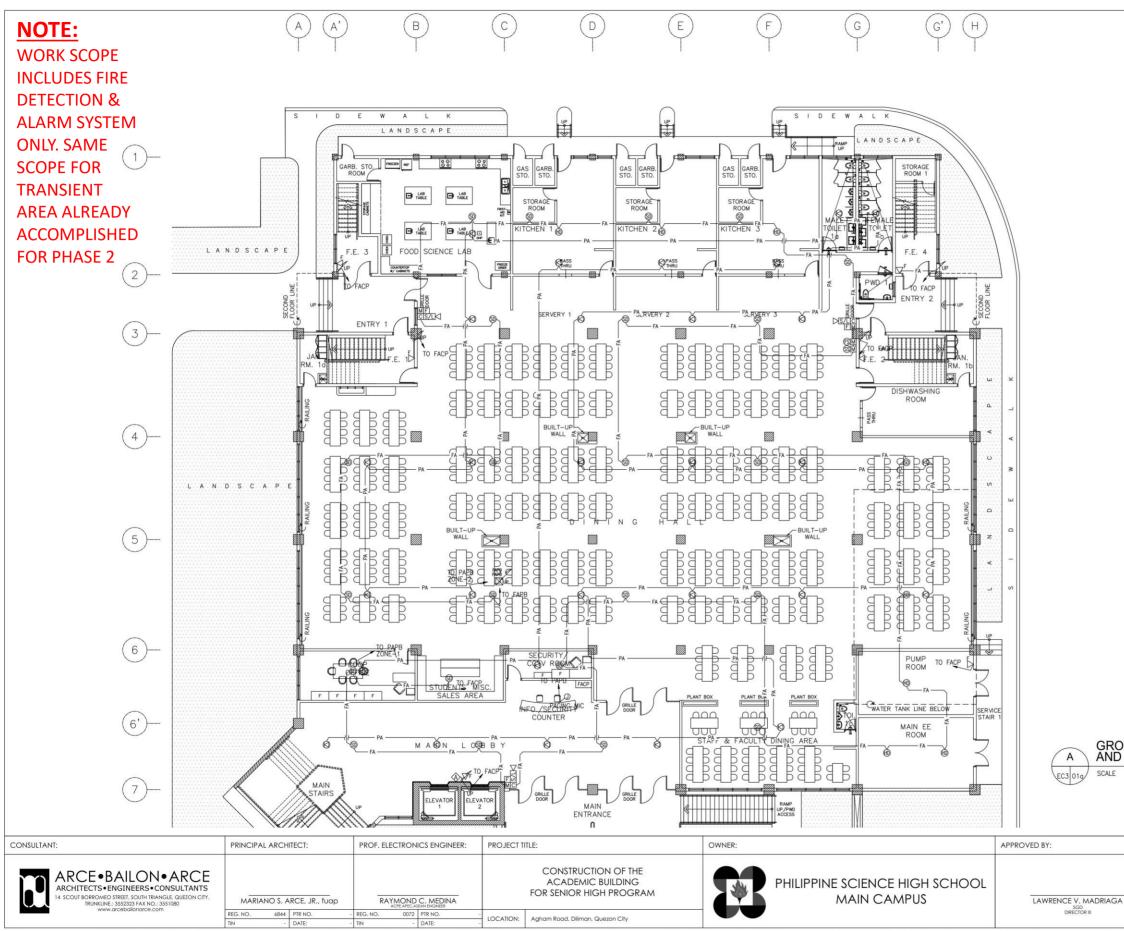
CAT	CATEGORY		
MC	INTERMEDIATE	METALLIC	CONDUIT

- INTERMEDIATE METALLIC CONDUIT POLYVINYL-CHLORIDE CONDUIT AMERICAN WIRE GAUGE THERMOPLASTIC COVERED FIXTURE WIRE UNINTERRUPTIBLE POWER SUPPLY PVC AWG TF UPS

NOTES FOR FIRE DETECTION AND ALARM SYSTEM

- 1. THE PURPOSE OF THIS SCHEMATIC IS TO PROVIDE A GENERAL CONCEPT AND PRINCIPLE OF THE PROPOSED FIRE DETECTION AND ALARM SYSTEM.
- EQUIPMENT AND DEVICES REFLECTED ON THE PLANS ARE INDICATIVE ONLY. CONTRACTOR TO FURNISHED AND INSTALL THE COMPLETE SYSTEM TI AND SOFTWARE PROGRAMMING AS MAY DEEMED NECESSARY FOR THE SUCCESSFUL OPERATION OF THE SYSTEM.
- QUANTITY OF FACP SHALL BE AS PER MANUFACTURER CAPACITY.
- REFER TO FLOOR PLAN LAYOUT FOR THE LOCATION OF ANNUNCIATOR.
- THE CAPACITY OF THE FACP SHALL BE AS PER MANUFACTURER AND HAVE AT LEAST 1 SPARE SIGNALING LINE CIRCUIT (SLC) LOOP.
- ALL FLOW SWITCHES AND SUPERVISORY SHALL BE CONNECTED TO THE FIRE DETECTION AND ALARM SYSTEM.
- 7. PROVIDE REPEATERS IF NECESSARY.

SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
 FIRE DETECTION & ALARM SYSTEM				
SCHEMATIC DIAGRAM				
			17-06	EC2-01
			17-00	LCZ-01
			_	
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	RCMCC		12	222



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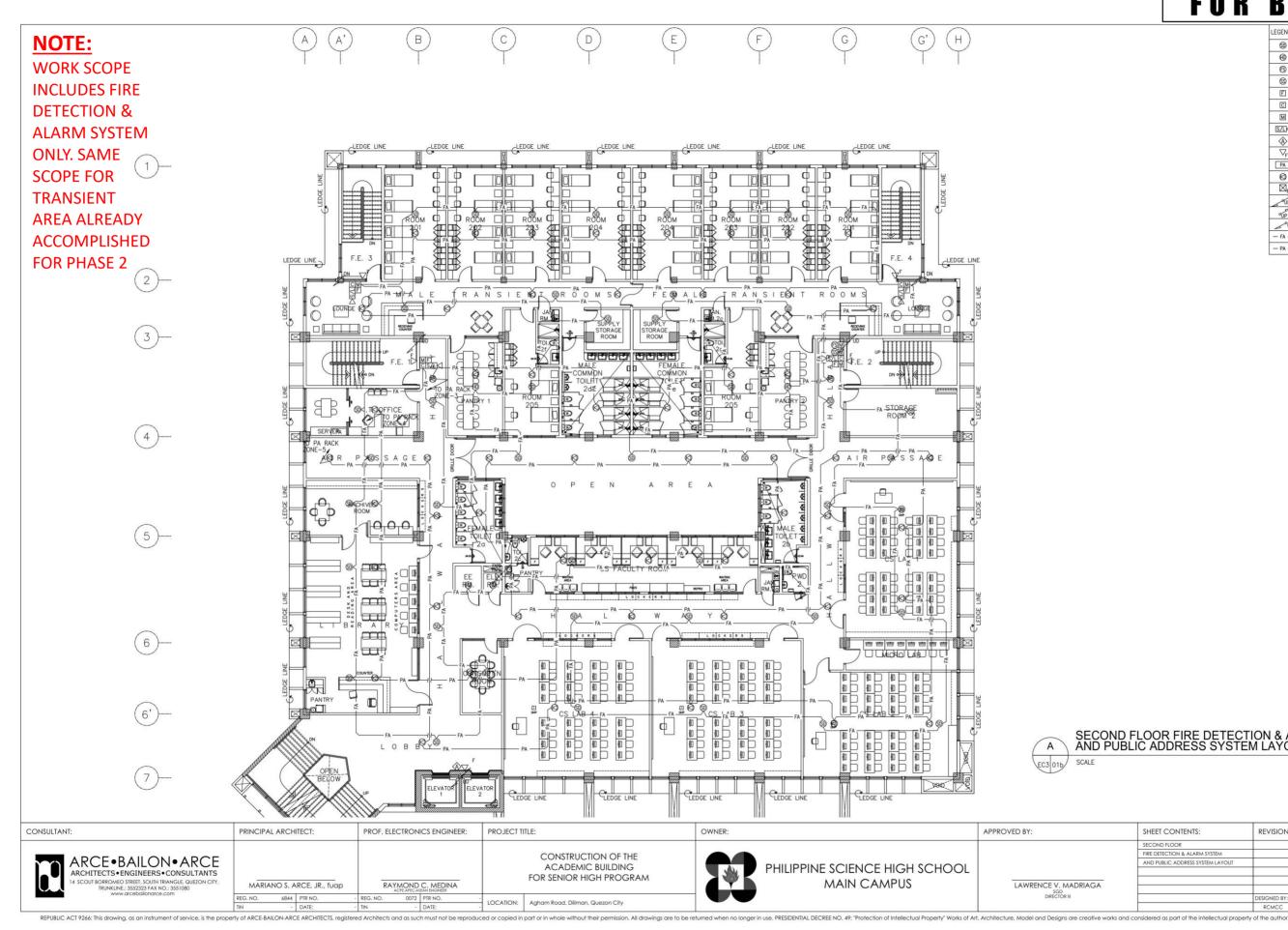


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LEGENDS	DESCRIPTION						
FACP	FIRE ALARM CONTROL PANEL						
60	SMOKE DETECTOR						
1	HEAT DETECTOR						
6	FLOW SWITCH						
\$	SUPERVISORY SWITCH						
F	MANUAL PULL STATION						
C	CONTROL MODULE						
Μ	MONITOR MODULE						
s/lkj	FIRE ALARM SOUNDER WITH STROBE LIGHT						
$\otimes$	GRAPHICAL ANNUNCIATOR						
$\nabla_{\!\!F}$	FIREMAN'S TELEPHONE JACK						
0	CEILING MOUNTED SPEAKER, 6W						
	PULLBOX						
UP	RISER UP						
— FA —	FIRE ALARM SYSTEM LAYOUT (25mmø IMC)						
— PA —	PUBLIC ADDRESS SYSTEM LAYOUT (25mmø IMC)						
0	JUNCTION BOX						

### GROUND FLOOR FIRE DETECTION & ALARM SYSTEM AND PUBLIC ADDRESS SYSTEM LAYOUT

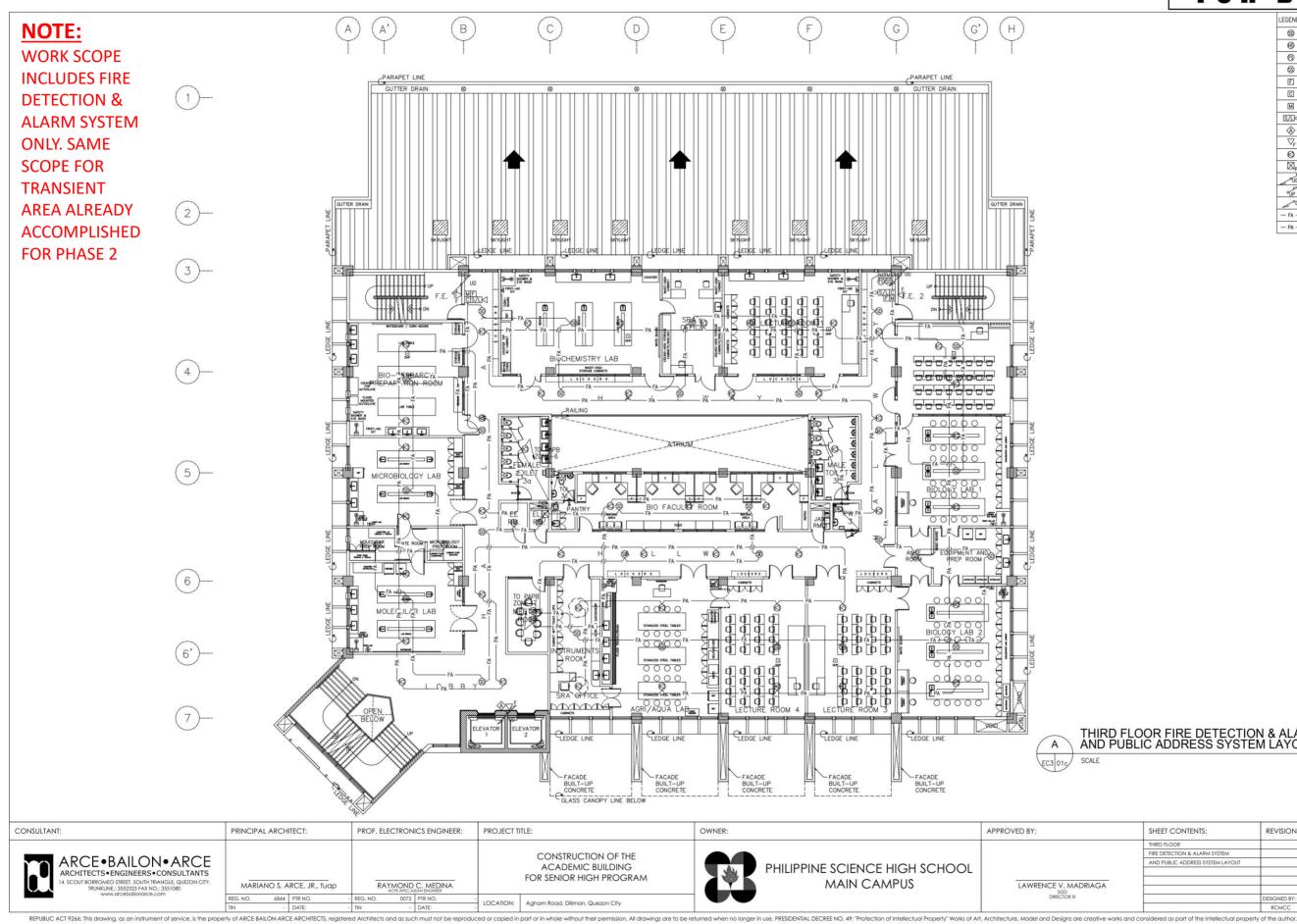
SHEET CONTENTS:	REVISION:	8	PROJECT NO .:	SHEET NO.:
 GROUND FLOOR	-		-	
FIRE DETECTION & ALARM SYSTEM			-	
AND PUBLIC ADDRESS SYSTEM LAYOUT			17.04	EC3-01a
			17-00	EC3-010
	-			
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	RCMCC		-	



LEGENDS	DESCRIPTION
90	SMOKE DETECTOR
Ð	HEAT DETECTOR
6	FLOW SWITCH
\$	SUPERVISORY SWITCH
F	MANUAL PULL STATION
C	CONTROL MODULE
м	MONITOR MODULE
S/LK	FIRE ALARM SOUNDER WITH STROBE LIGHT
$\otimes$	GRAPHICAL ANNUNCIATOR
$\nabla_{\!F}$	FIREMAN'S TELEPHONE JACK
PA	PUBLIC ADDRESS EQUIPMENT RACK
0	CEILING MOUNTED SPEAKER, 6W
	PULLBOX
OUD	RISER UP/DOWN
°UP	RISER UP
DN	RISER DOWN
— FA —	FIRE ALARM SYSTEM LAYOUT (25mm# IMC)
— PA —	PUBLIC ADDRESS SYSTEM LAYOUT (25mm@ IMC)

### SECOND FLOOR FIRE DETECTION & ALARM SYSTEM AND PUBLIC ADDRESS SYSTEM LAYOUT

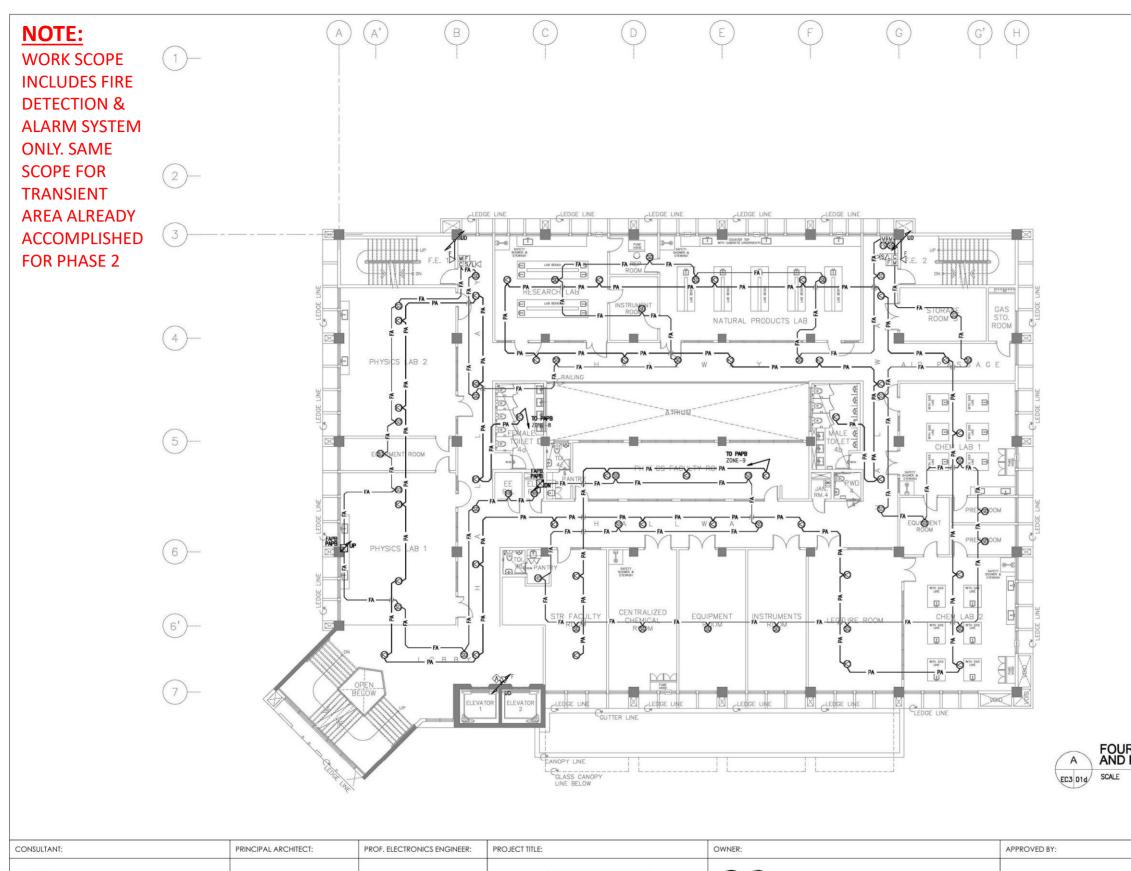
SHEET CONTENTS:	REVISION:	8	PROJECT NO .:	SHEET NO.:
 SECOND FLOOR	-		-	
FIRE DETECTION & ALARM SYSTEM			-	
AND PUBLIC ADDRESS SYSTEM LAYOUT			17.04	EC3-01b
			17-00	EC2-01D
		1		
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	RCMCC		-	



LEGENDS	DESCRIPTION
9	SMOKE DETECTOR
Ð	HEAT DETECTOR
ß	FLOW SWITCH
\$	SUPERVISORY SWITCH
F	MANUAL PULL STATION
C	CONTROL MODULE
Μ	MONITOR MODULE
S/LK	FIRE ALARM SOUNDER WITH STROBE LIGHT
$\otimes$	GRAPHICAL ANNUNCIATOR
$\nabla_{\!\!F}$	FIREMAN'S TELEPHONE JACK
0	CEILING MOUNTED SPEAKER, 6W
	PULLBOX
UD	RISER UP/DOWN
UP	RISER UP
DN	RISER DOWN
— FA —	FIRE ALARM SYSTEM LAYOUT (25mm# IMC)
— PA —	PUBLIC ADDRESS SYSTEM LAYOUT (25mm@ IMC)

### THIRD FLOOR FIRE DETECTION & ALARM SYSTEM AND PUBLIC ADDRESS SYSTEM LAYOUT

SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
 THIRD FLOOR				
FIRE DETECTION & ALARM SYSTEM				
AND PUBLIC ADDRESS SYSTEM LAYOUT			17.04	EC3-01c
			17-00	ECS-UIC
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	RCMCC		-	



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www.ucebuildhuice.com	REG. NO.	6844	PTR NO.	- REG. NO.	0072	PTR NO.	LOCATION:	Ashen Based Dilares Outras City			DIRECTOR III
	TIN	12	DATE:	- TIN		DATE:	-] LOCATION:	Agham Road, Diliman, Quezon City			

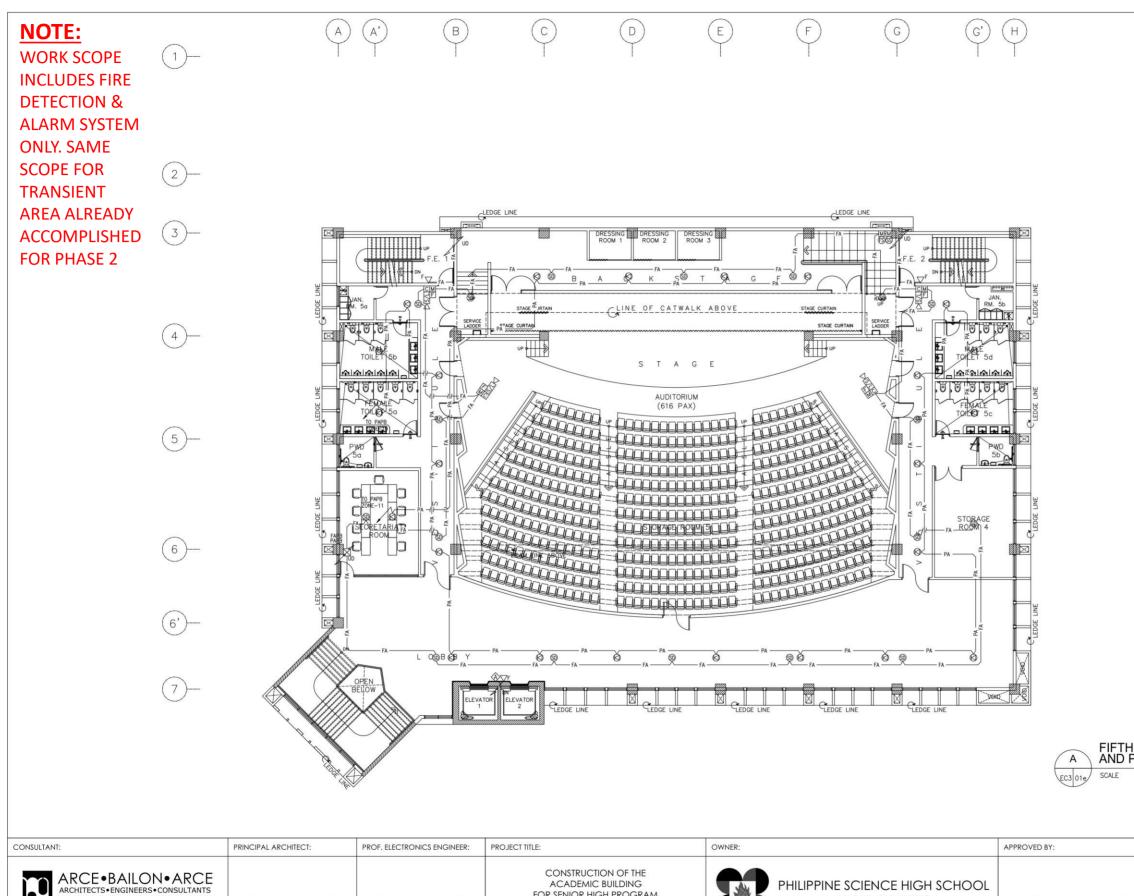
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## FOR BIDDING

LEGENDS	DESCRIPTION
9	SMOKE DETECTOR
Ð	HEAT DETECTOR
ß	FLOW SWITCH
\$	SUPERVISORY SWITCH
F	MANUAL PULL STATION
C	CONTROL MODULE
M	MONITOR MODULE
SZLKI	FIRE ALARM SOUNDER WITH STROBE LIGHT
$\langle \! \! \  \  \  \  \  \  \  \  \  \  \  \ $	GRAPHICAL ANNUNCIATOR
$\nabla_{\!\!F}$	FIREMAN'S TELEPHONE JACK
0	CEILING MOUNTED SPEAKER, 6W
⊠ <sub>PB</sub>	PULLBOX
OUD	RISER UP/DOWN
UP	RISER UP
DN	RISER DOWN
— FA —	FIRE ALARM SYSTEM LAYOUT (25mm# IMC)
— PA —	PUBLIC ADDRESS SYSTEM LAYOUT (25mmø IMC)

### FOURTH FLOOR FIRE DETECTION & ALARM SYSTEM AND PUBLIC ADDRESS SYSTEM LAYOUT

SHEET CONTENTS:	REVISION:	2	PROJECT NO .:	SHEET NO .:
FIFTH FLOOR				
FIRE DETECTION & ALARM SYSTEM				
AND PUBLIC ADDRESS SYSTEM LAYOUT			17.0/	EC3-01e
			17-06	ECS-016
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	RCMCC			122



TIN	DATE:	- TIN -	DATE: -	LOCATION:	Agham Road, Diliman, Quezon City	

RAYMOND C. MEDINA

IGLE, QUEZON C

MARIANO S. ARCE, JR., fuap

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FOR SENIOR HIGH PROGRAM

PHILIPPINE SCIENCE HIGH SCHOOL

MAIN CAMPUS

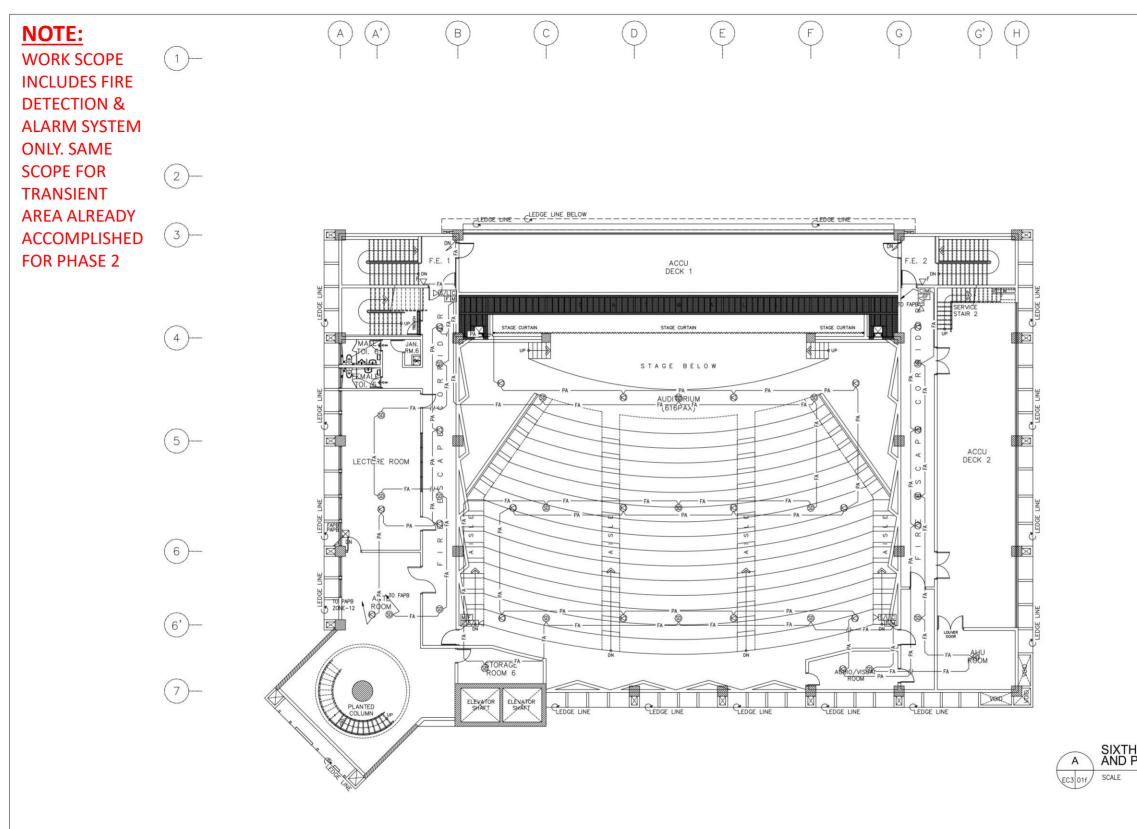
LAWRENCE V. MADRIAGA SGD DIRECTOR III

## FOR BIDDING

LEGENDS	DESCRIPTION
9	SMOKE DETECTOR
Ð	HEAT DETECTOR
ß	FLOW SWITCH
\$	SUPERVISORY SWITCH
F	MANUAL PULL STATION
C	CONTROL MODULE
Μ	MONITOR MODULE
S/LK	FIRE ALARM SOUNDER WITH STROBE LIGHT
$\otimes$	GRAPHICAL ANNUNCIATOR
$\nabla_{\!\!F}$	FIREMAN'S TELEPHONE JACK
0	CEILING MOUNTED SPEAKER, 6W
	PULLBOX
UD	RISER UP/DOWN
UP	RISER UP
DN	RISER DOWN
— FA —	FIRE ALARM SYSTEM LAYOUT (25mm# IMC)
— PA —	PUBLIC ADDRESS SYSTEM LAYOUT (25mm@ IMC)

### FIFTH FLOOR FIRE DETECTION & ALARM SYSTEM AND PUBLIC ADDRESS SYSTEM LAYOUT

	The second second		100000 000000000 P	24020000000
SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
FIFTH FLOOR				
FIRE DETECTION & ALARM SYSTEM				
AND PUBLIC ADDRESS SYSTEM LAYOUT			17.04	EC3-01e
			17-00	EC2-016
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	RCMCC		-	2.2



		PROF. ELECTRONICS ENGINEER:	PROJECT TITLE:	OWNER:	APPROVED BY:
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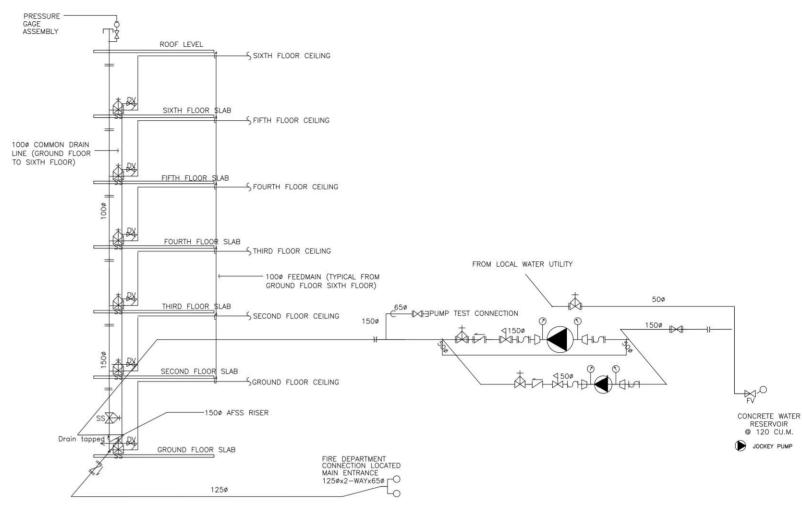
LEGENDS	DESCRIPTION
60	SMOKE DETECTOR
Ð	HEAT DETECTOR
ß	FLOW SWITCH
\$	SUPERVISORY SWITCH
F	MANUAL PULL STATION
C	CONTROL MODULE
M	MONITOR MODULE
S/LK	FIRE ALARM SOUNDER WITH STROBE LIGHT
0	CEILING MOUNTED SPEAKER, 6W
⊠ <sub>PB</sub>	PULLBOX
DN	RISER DOWN
— FA —	FIRE ALARM SYSTEM LAYOUT (25mm# IMC)
— PA —	PUBLIC ADDRESS SYSTEM LAYOUT (25mm# IMC)

### SIXTH FLOOR FIRE DETECTION & ALARM SYSTEM AND PUBLIC ADDRESS SYSTEM LAYOUT

SHEET CONTENTS:	REVISION:		PROJECT NO .:	SHEET NO .:
SIXTH FLOOR				
FIRE DETECTION & ALARM SYSTEM				
AND PUBLIC ADDRESS SYSTEM LAYOUT			17.04	EC3-01f
			17-00	ECS-UII
		1		
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	RCMCC		-	

### GENERAL NOTES:

- ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE PROVISIONS OF THE FIRE CODE OF THE PHILIPPINES AND THE NATIONAL FIRE CODE BY NFPA.
- 2. THE WORK SHALL BE EXECUTED IN CLOSED COORDINATION WITH OTHER TRADES SO AS TO INSURE THE PROPER IMPLEMENTATION OF THIS PROJECT.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE EXACT LOCATION AND DIMENSIONS OF ALL REQUIRED WALL AND FLOOR OPENINGS.
- 4. THE EXACT LOCATION OF ALL SPRINKLER HEADS SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER REPRESENTATIVE AND SHALL BE SUBJECTED TO BOTH THE ARCHITECTS AND THE FIRE PROTECTION DESIGN ENGINEERS APPROVAL.
- 5. LOCATION OF DRAIN PIPES AND OF THE BACK-UP SUPPLY LINES SHALL BE COORDINATED BY PLUMBING CONTRACTOR.
- 6. LOCATION AND MOUNTING OF FIRE HOSE CABINETS SHALL BE COORDINATED WITH THE ARCHITECTURAL FINSHES AND SHALL BE SUBJECTED TO BOTH THE ARCHITECTS AND FIRE PROTECTION DESIGN ENGINEERS APPROVAL.
- 7. SIZE OF THE RISER NIPPLES SHALL CONFORM TO PIPE SCHEDULES AS DELINEATED IN NFPA 13.
- PIPE SUPPORT, HANGERS AND BRACING SHALL BE OF APPROVED TYPE AND SHALL BE INDEPENDENT FORM CEILINGS AND DUCT SUPPORT.
- FP-1 AND JP-1 CIRCUIT BREAKER AND STARTERS INCLUDING THE POWER WIRING AND CONDUITING TAPPING FROM MAIN CIRCUIT BREAKER AT FIRE PUMP ROOM SHALL BE SUPPLIED AND INSTALLED BY FIRE PROTECTION CONTRACTOR.
- 10. ALL WIRINGS TO MONITOR FLOW SWITCH IN THE FIRE ALARM PANEL SHALL BE SUPPLIED AND INSTALL BY FIRE PROTECTION CONTRACTOR. ROUGHING-IN SHALL BE BY ELECTRICAL CONTRACTOR. WIRING SHALL BE TERMINATED TO THE DESIGNATED TERMINAL BLOCK IN THE ALARM PANEL.
- 11. SHOP DRAWING SHALL BE PREPARED FOR THE FIRE PUMP LAYOUT, PIPE HANGER AND OTHER INSTALLATION AS INDICATED IN THE SPECIFICATION.
- 12. THE CONTRACTOR SHALL PROVIDE AND INSTALL 10 LBS. PORTABLE FIRE EXTINGUISER IN FIRE HOSE CABINET. ALL PORTABLE FIRE EXTINGUISERS SHALL BE LOCATED SO THAT ALL FIRE FIRE AT ANY POINT IN THE BUILDING CAN BE REACHED FROM ONE(1) EXTINGUISER WITH A TRAVEL DISTANCE OF NOT MORE THAN 75 FT.
- 13. PROVIDE SECTIONALIZING AND FLOW SWITCHES FOR ALL ZONE CONNECTION TO RISER
- 14. PIPE SHALL BE OF SCHEDULE 40 & SHALL CONFORM TO ASTM OR ANSI/ASTM A-120 OR API-5L FOR PIPE SIZES LARGER THAN 50mm, THE FITTING SHALL ANSI B16-9 FOR FLANCED BECK BUTT WELDED TYPE, FITTING SIZE 50mm & SMALLER SHALL BE TREATED MALEABLE IRON FITTINGS SHALL CONFORM TO ANSI B-16-3, CLASS 150.
- 15. PROVIDE UNION @ EACH THREADED OR WELDED CONNECTION TO EQUIPMENT & VALVES UP TO
- 16. VALVES RATING SHALL MEET OR EXCEED THEIR RESPECTIVE SYSTEM OPERATING PRESSURE AND TEMPERATURE. ALL VALVE SHALL BE LINE SIZE UNLESS OTHERWISE SPECIFIED.
- 17. PIPE SHALL BE PAINTED W/ ONE(1) COAT PRIME & TWO(2) COATS FINAL.
- 18. SPACING OF SPRINKLER & BRANCH LINE SHALL CONFORM TO THE DRAWINGS. 19. A MINIMUM OF 50mm CLEARANCE SHALL BE PROVIDED AROUND PIPING EXTENDED THROUGH
- WALL, FLOORS, PLATFORMS & FOUNDATION, INCLUDING DRAINS & OTHER AUXILLIARY PIPING.
- 20. JOINT COMPOUND OR TAPE SHALL BE APPLIED TO THE THREADS OF THE PIPE & NOT IN FITTING.
- PIPE HANGER SHALL BE IN SUCH THAT COULD SUPPORT FIVE TIMES THE WEIGHT OF THE WATER FILLED PIPE PLUS 114KG @ EACH POINT OF PIPING SUPPORT.
- MAXIMUM DISTANCE BETWEEN HANGERS SHALL NOT EXCEED 3.66M (12FT.) FOR 25mmø & 32mm OR 4.57(15FT.) FOR 38mmø & LARGER DIAMETER.
- 23. FIRE PROTECTION CONTRACTOR SHALL INDICATE LOCATION OF EXISTING DRY STANDPIPE, INCLUDING FIRE DEPARTMENT CONNECTION ON AS-BUILT PLANS.



### PUMP SCHEDULE

ITEM	QTY	LOCATION	DESCRIPTION	CAPACITY (GPM)	TOTAL DYNAMIC HEAD (M-H20)	RPM	APPROX. MOTOR INPUT (KW)	RATING	REMARKS
									FIRE PUMP-CUT IN 60 PSI.
FP-1	1	NEARBY	HORIZONTAL SPLIT CASE FIRE PUMP W/ CONTROLLER	500	133	3500	55.00	220V\1HP\60HZ	CUT-OUT MANUAL
JP-1	1	WATER SOURCE	HORIZONTAL SPLIT CASE JOCKEY PUMP W/ CONTROLLER	20	105	3500	3.73	220V\1HP\60HZ	JOCKEY PUMP SHALL BE SET TO CUT-IN AT 80 PSI
									AND TO CUT-OFF AT 150 PSI

### TABULATED COMPONENTS OF AFSS SYSTEM

FLOOR	QUANTITY OF PENDANT SPRINKLER HEADS	PORTABLE FIRE EXTINGUISHER (ABC TYPE, 4.5kg)	FIRE HOSE CABINET W/ PFE ABC, 4.5kg	SCHE (LIGHT H)
GROUND FLOOR	163	12	4	2 S. HEADS - 2
SECOND FLOOR	164	12	4	3 S. HEADS - 3
THIRD FLOOR	126	12	4	5 S. HEADS - 3 10 S. HEADS - 3
FOURTH FLOOR	118	12	4	275 S. HE
FIFTH FLOOR	45	12	4	
SIXTH FLOOR	119	12	4	
	735			
OWNER:			APPROVED BY:	

CONSULTANT:	PRINCIPAL ARCH	HITECT:	PROF. MECHAN	CAL ENGINEER:	PROJECT T	ITLE:	OWNER:		APPROVED BY:
ARCE • BAILON • ARCE ARCHITECTS • ENGINEERS • CONSULTANTS 14 SCOUT BOROMEO STREET, SOUTH TRIANGLE, QUEZON CITY, TRUNKLE: 355222 FAX NO: 3551080 www.arcebiolandex.com		ARCE, JR., fuap				CONSTRUCTION OF THE ACADEMIC BUILDING FOR SENIOR HIGH PROGRAM		PHILIPPINE SCIENCE HIGH SCHOOL MAIN CAMPUS	
	TIN	DATE:	- TIN -	DATE:	LOCATION:	Agham Road, Diliman, Quezon City			

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### LEGENDS & SYMBOLS

DESCRIPTION

CHECK VALVE, FLANGED

OS & Y GATE VALVE, FLANGED

OS & Y GATE VALVE, WITH

RELIEF VALVE, FLANGED

FIRE DEPARTMENT CONNECTION

FLOAT VALVE

DRAIN VALVE

HANGER/SUPPORT

RISER NIPPLE

FLEXIBLE CONNECTOR

REDUCER (ECCENTRIC)

REDUCER (CONCENTRIC)

FLOOR CONTROL VALVE

FIRE HOSE CABINET

FIRE PUMP

PORTABLE FIRE EXTINGUISHER - ABC TYPE

AUTOMATIC FIRE SPRINKLER SYSTEM

LATERAL SWAY BRACE

LONGITUDINAL SWAY BRACE

PENDENT TYPE SPRINKLER HEADS (CHROME FINISHED W/ ESCUTCHEON PLATE)

END CAP

SYMBOLS

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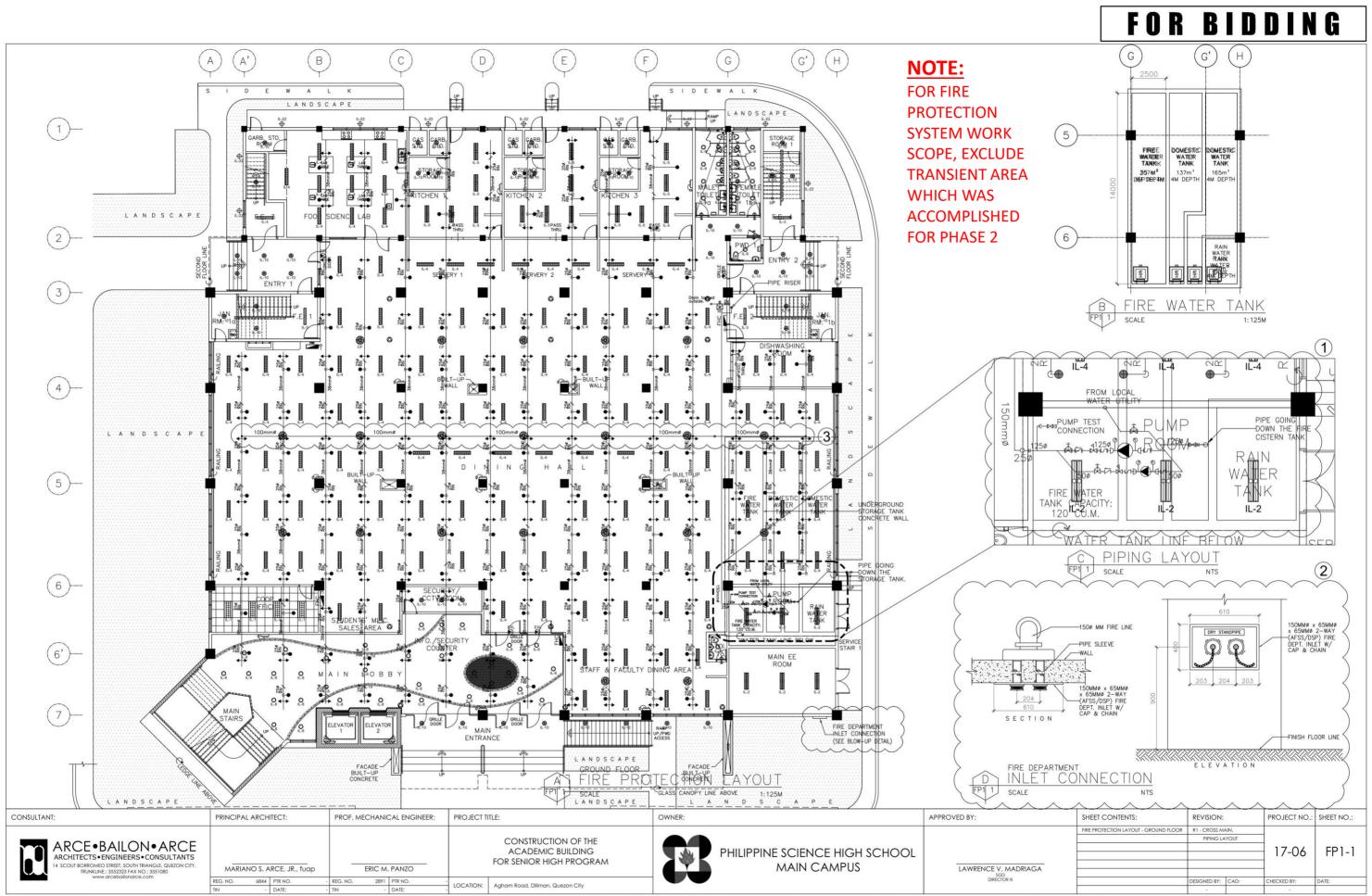
AFSS

FCV

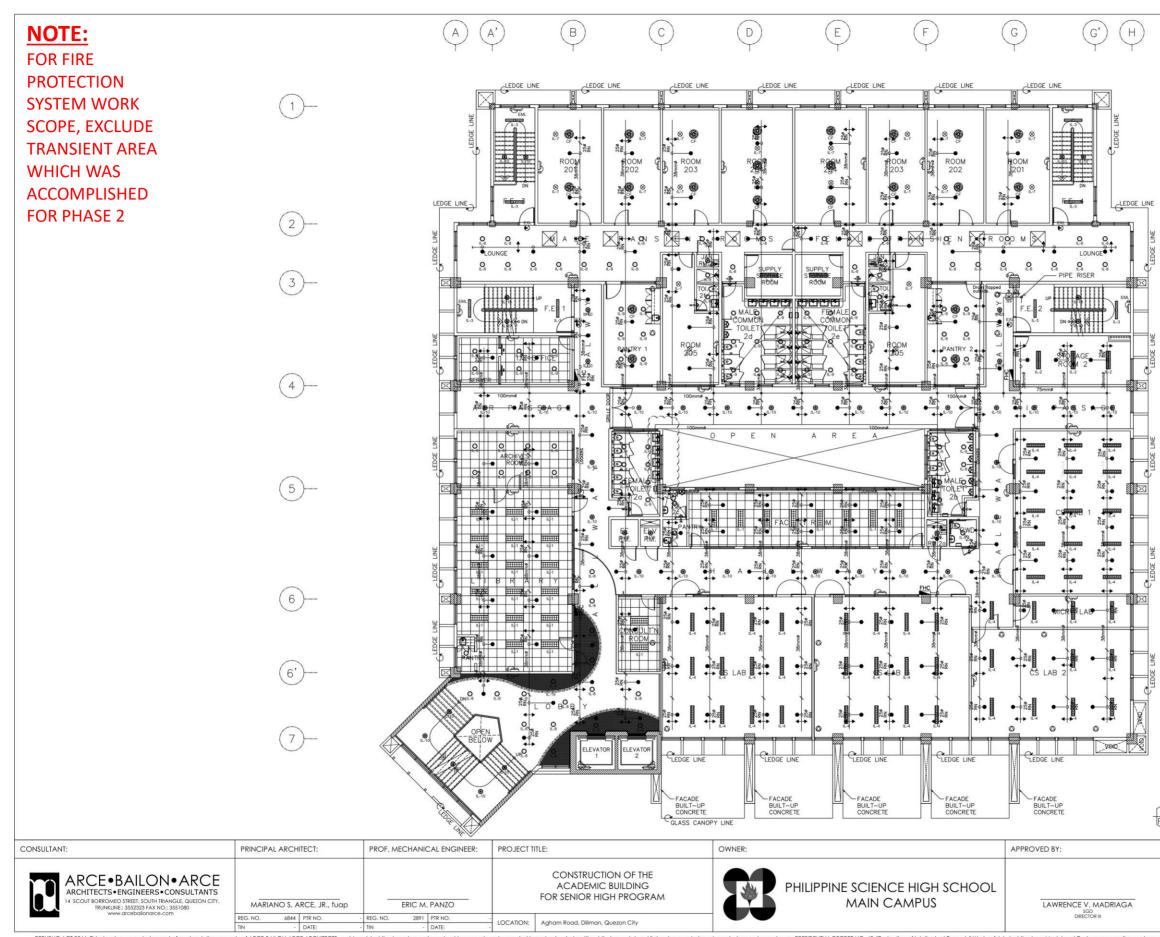
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-n+

	LE OF PIPE SIZES RD OCCUPANCY)				
- 30mi - 38m - 50mi	m 30 S. HEADS - 65MM m 60 S. HEADS - 75MM m 100 S. HEADS - 100MM m 165 S. HEADS - 125MM s & ABOVE - 150mm				
	SHEET CONTENTS:	REVISION:	8	PROJECT NO .:	SHEET NO .:
	GENERAL NOTES				
				17-06	FP0-1
		DESIGNED BY:	CAD:	CHECKED BY:	DATE:



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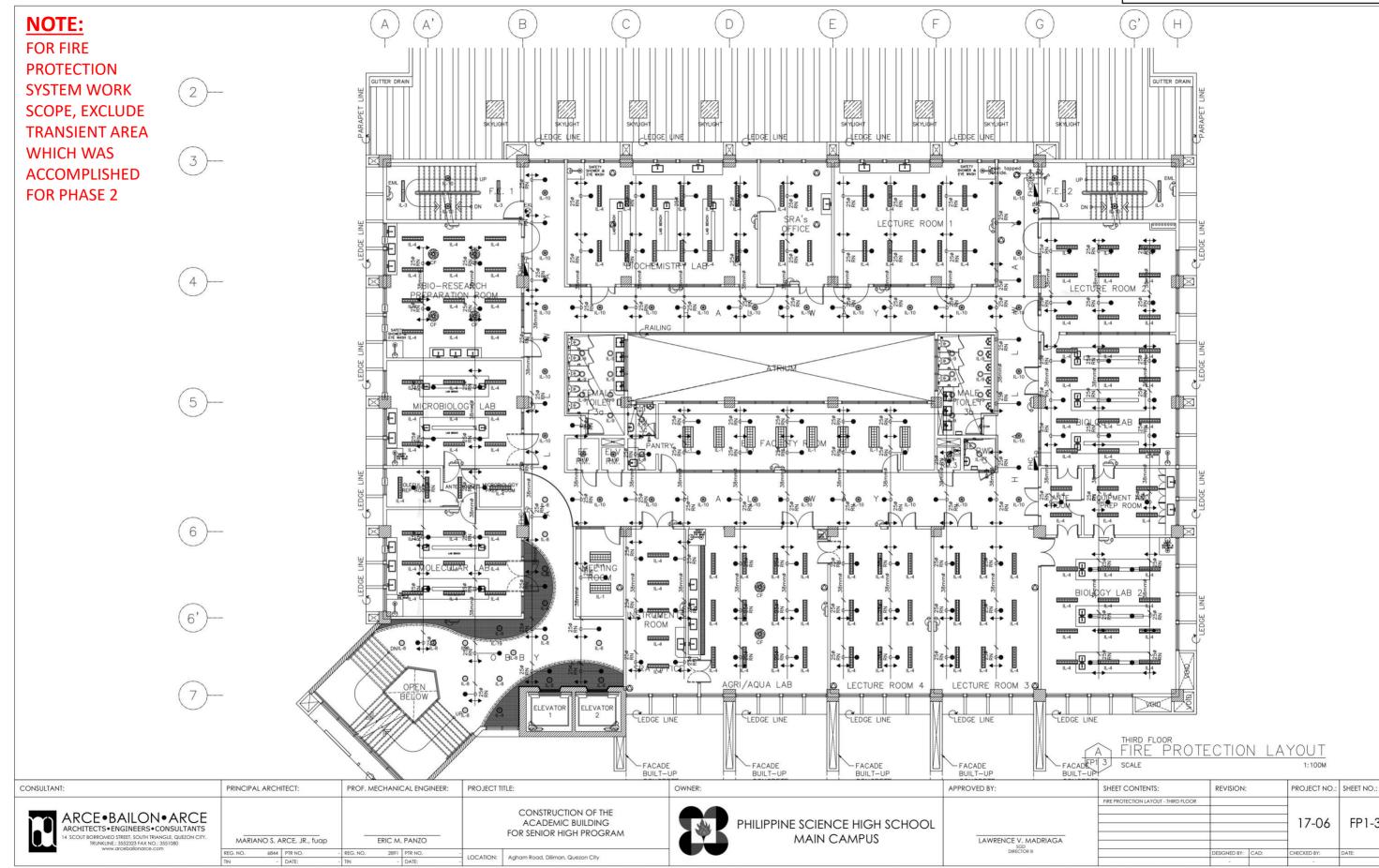


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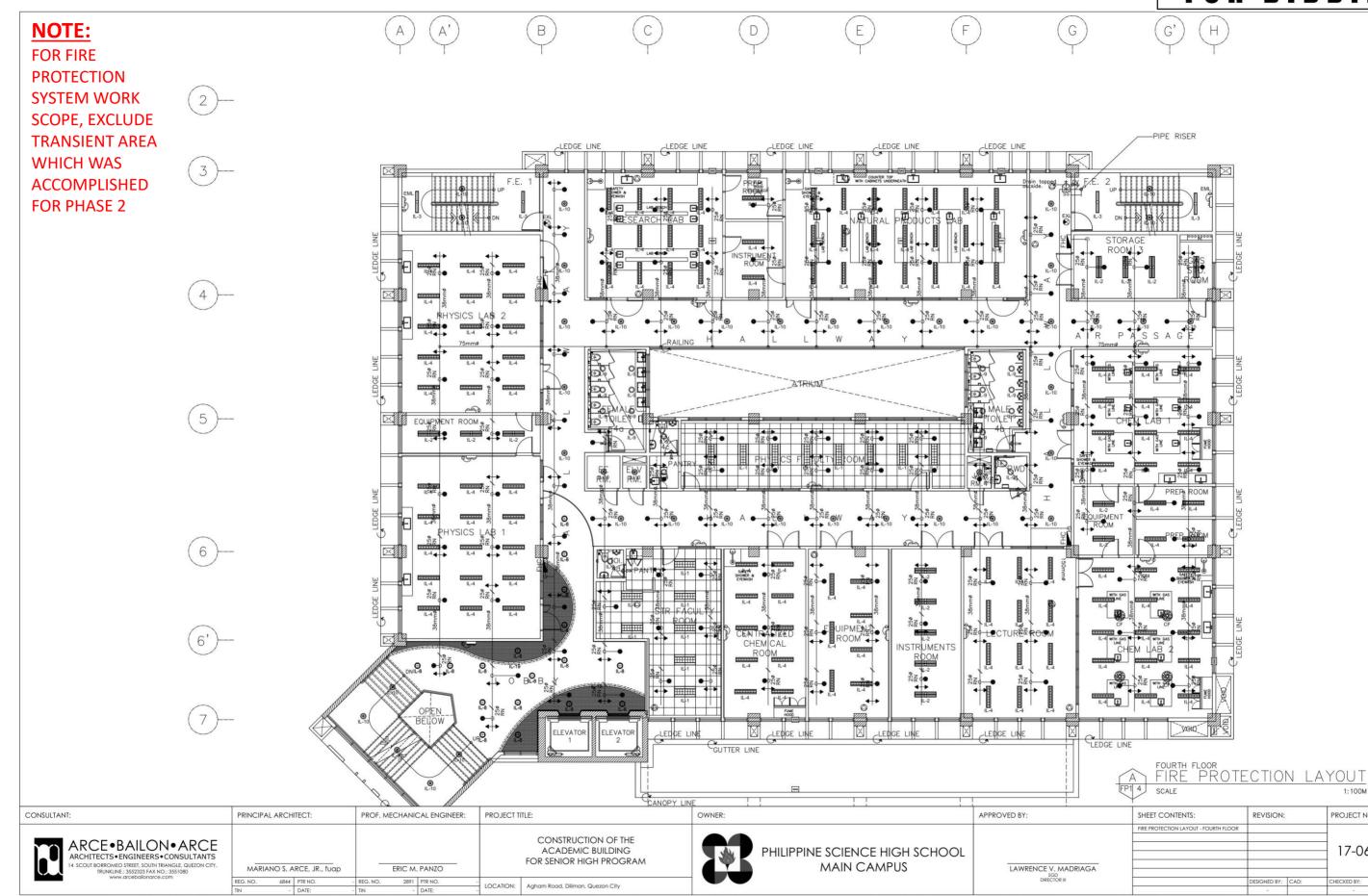
SECOND FLOOR FIRE PROTE	CTIO	N LA	YOUT 1: 125M	
SHEET CONTENTS:	REVISION:	8	PROJECT NO .:	SHEET NO .:
FIRE PROTECTION LAYOUT - SECOND FLOOR			17-06	FP1-2
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FP1-3

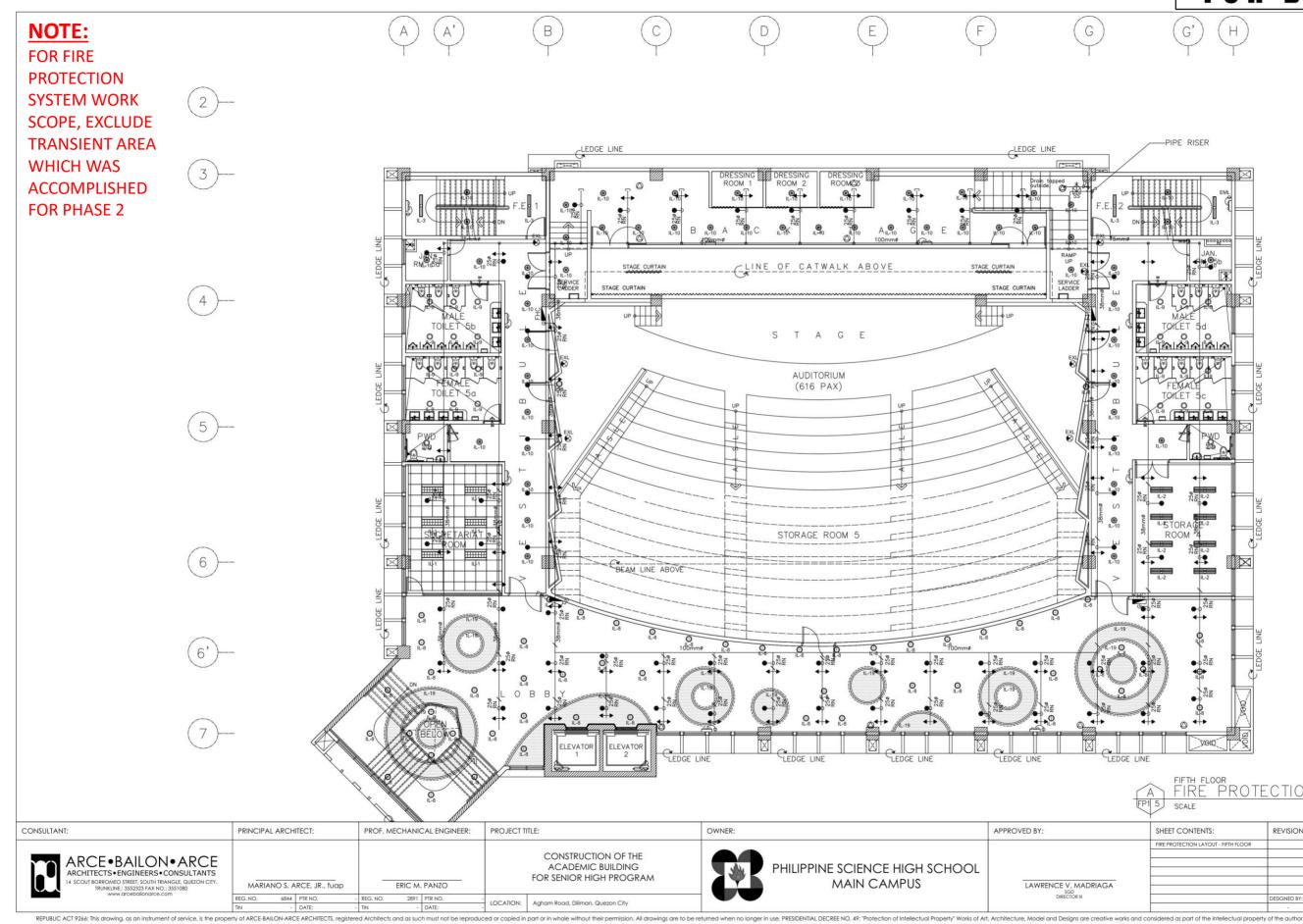


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			17-06	FP1-4
			17 00	11 1 4
	DESIGNED BY:	CAD:	CHECKED BY:	DATE:
	1		1	

1:100M





A FP1 5	FIFTH FLOOR FIRE PROTE scale	ECTIO	n la	YOUT 1:100M	
	SHEET CONTENTS:	REVISION:	8	PROJECT NO .:	SHEET NO .:
-	FIRE PROTECTION LAYOUT - FIFTH FLOOR	-		_	
				17-06	FP1-5
F				-	
		DESIGNED BY:	CAD:	CHECKED BY:	DATE:
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