





### Republic of the Philippines

## GOVERNMENT PROCUREMENT POLICY BOARD TECHNICAL SUPPORT OFFICE

Project: Supply, Delivery, and Installation of Audio and Video Equipment for the GPPB Boardroom, Auditorium, Training Rooms, and Meeting Rooms

**Bid Bulletin No.: 03** 

### TO ALL INTERESTED BIDDERS:

A. Please be advised on the following clarifications to the requirements specified in the Bidding Documents issued for the above-mentioned project.

Questions/Concerns on the requirements	Clarifications/Answers
Is OEM Authority Certificate required for all equipment or for major equipment only?      A second sec	Relative to the requirements under Item 4.4 of the Terms of Reference (TOR) and Item I(f)(iii) of Section VIII. Checklist of Technical and Financial Documents, the bidder shall submit a copy of its authority certificate issued by the OEM to distribute, sell, install, service, and/or maintain the equipment in the Philippines for the following equipment:  1. PTZ Camera 2. Digital Matrix Processors 3. Power Amplifier 4. Control Processor 5. Digital Signal Processor 6. Indoor LED Wall Display 7. Touch Panels 8. Projector 9. Teleprompter 10. Speakers 11. POE Switches 12. Access Point 13. Monitor Display







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2.	Can you give us a list of major equipment that requires Eco Label Certification?	Please refer to the following requirements under the Terms of Reference:
		Monitor Display:     a. Items 5.2.1.14 and 5.3.1.14     Energy efficient and with Energy     Star Rating of at least 4 Stars
		2. Power Amplifier: a. Items 5.1.14.1, 5.2.14.1, and 5.3.10.1 Compact mono amplifier with 200 watts RMS power output into a 70-volt line and Energy Star qualification or any eco label certification
3.	Can you provide a Single Line Diagram for this project?	The Single Line Diagram is provided under <b>Annex A</b> of the Bid Bulletin.
4.	Do you have a floor plan provided?	The Floor Plan is provided under <b>Annex B</b> of the Bid Bulletin.
5.	Is the project related to Background Music and Public Address can be considered as similar contract for SLCC?	Please refer to ITB Clause 5.3 of the Bid Data Sheet.
6.	Can we provide ROHS or environmental standards like ISO 14001 or equivalent.	Please refer to the above provided answer under Item No. 2.  Any eco or green label or environmental compliance certificate or standard is acceptable.
7.	Is it possible to omit the specification under 5.1.13. Ceiling Speaker 5.1.13.8 Energy Efficient and with any eco label certification? This is not applicable in the ceiling speaker,	Please refer to Item B (4) of the Bid Bulletin.







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	and this is supposed to be applicable especially to the power amplifiers.	
8.	Can we request for scaled floor plan and electrical plan for the rooms/locations?	Please refer to <b>Annex B</b> of the Bid Bulletin.
9.	Is there an available power for all the areas where we can plug the equipment to power up? The power outlet should be beside the location and no additional electrical works.	Yes. Please refer to <b>Annex B</b> of the Bid Bulletin.
10	D. Since the GPPB-TSO Building is new and to avoid any possible violation of the warranty on the contractors works, we would like to recommend that wall moldings and rubber floor moldings will be use special for finish locations (with tiles).	Please refer to the requirement under Item 3.4.2 of the TOR.  Under Item 3.2 of the TOR, the Service Provider shall submit, within ten (10) calendar days upon receipt of the Notice to Proceed, a detailed work plan, including the lay-out design, to the GPPB-TSO for approval of the duly authorized representative of the GPPB-TSO, with schedule of activities, details of activities, and monitoring tool as a reference of the GPPB-TSO in evaluating the work accomplishments and status of the implementation of the project.
11	.What is the use of Power Controller? As per checking, this is not necessary for the system requirement of GBBB-TSO. If end-users insist that this is needed, may we request a Single-Line Diagram (SLD) from the end-users?	The Power Controller will be used to control the power of the Audio Visual (AV) equipment. This control will be executed via the user interface. The Power Controller will be used to protect the AV equipment and conserve energy.  For SLD, please refer to <b>Annex A</b> of the Bid Bulletin.







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## B. The following requirements shall be read as follows:

Item No.	Amended Requirement
Section VIII. Checklist of     Technical and Financial     Documents Item f(iv)	Any eco or green label or environmental compliance certificate or standard for the Monitor Display and Power Amplifier.
2. Item 3.1.2 of the TOR	The SP shall install and configure all the hardware, audio and video equipment, devices, components, and peripherals for this project, including all the necessary wiring and data cabling in the identified locations/rooms of the buildings.
3. Item 5.6.1 and Item No. 122 of the Bill of Quantities of the TOR	7" Wall Mount Touch Screen Scheduling Panel
4. Item 5.1.13 of the TOR	Item 5.1.13 Ceiling Speakers  5.1.13.1. 8" full range transducer delivers up to 10W in either 70V or 100V mode using wiring taps on the transformer 5.1.13.2. Transformer tap 2.5, 5, 10W 5.1.13.3. 490, 1k, 2k Ohms input impedance 5.1.13.4. 100 Hz ~ 20 kHz frequency response 5.1.13.5. 98 dB SPL (1W/1m) 5.1.13.6. Metal frame and metal grille 5.1.13.7. Shallow depth

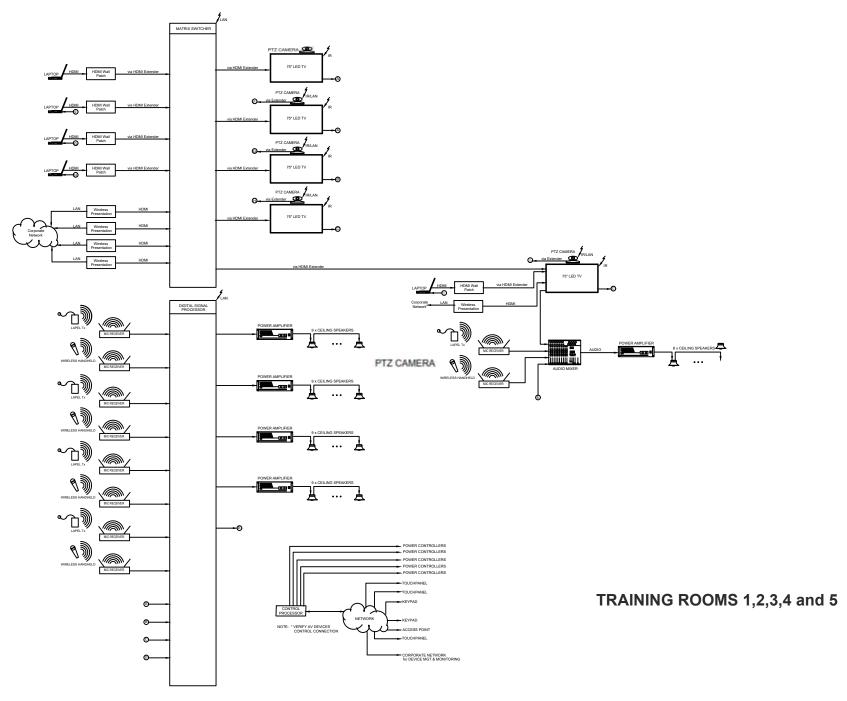
Please be guided accordingly.

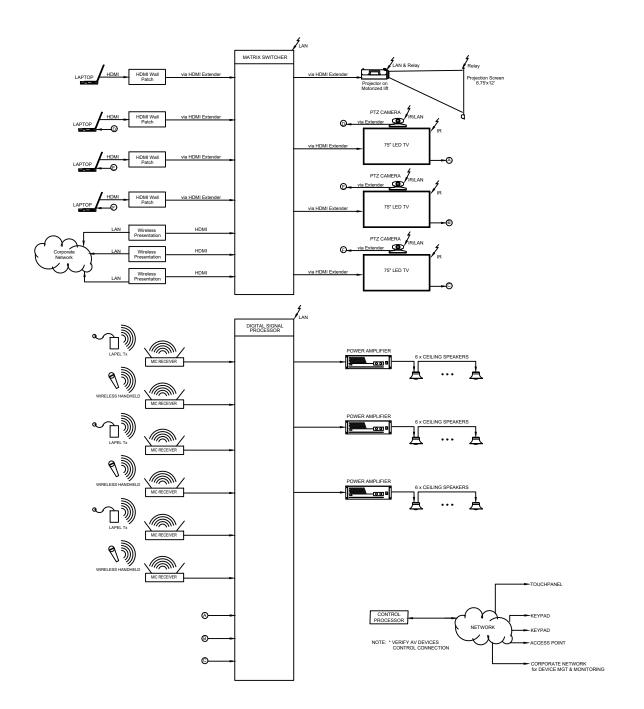
Issued this 10th day of November 2023.

### ATTY. MA. JOZZENNE CLAIRE M. BELTRAN-CARANDANG

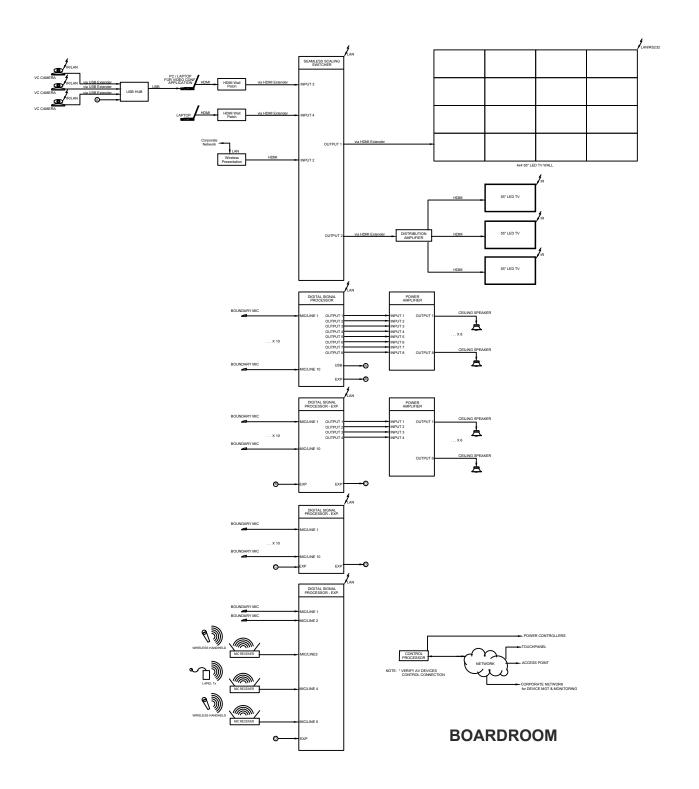
Chairperson, Bids and Awards Committee

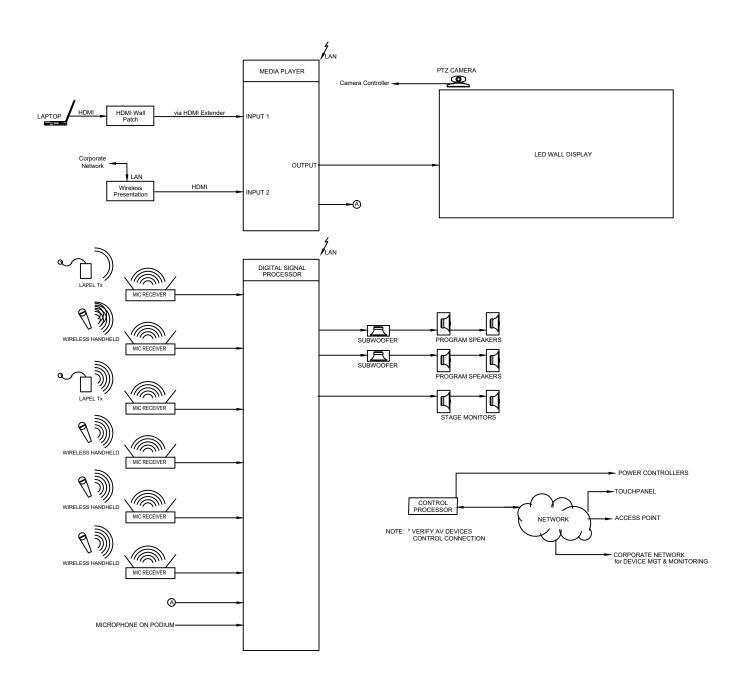
## **ANNEX A**

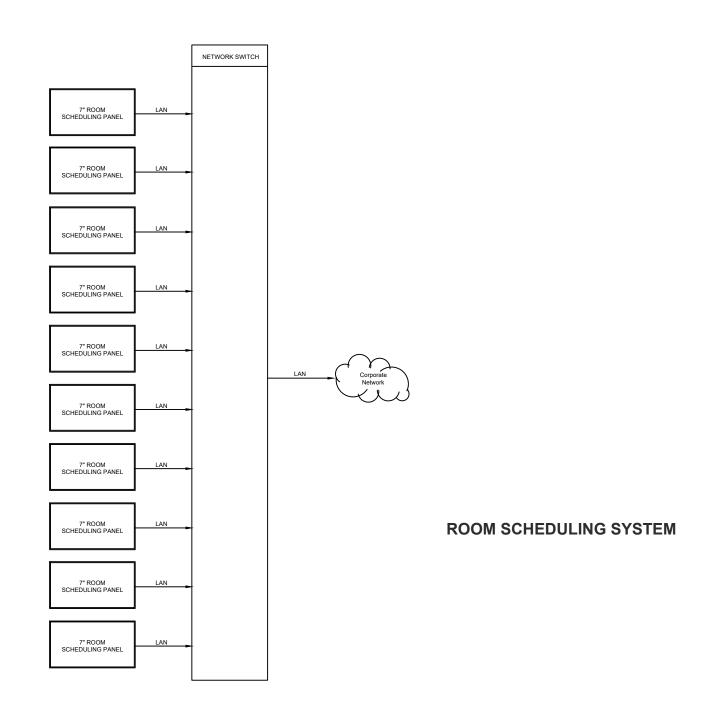


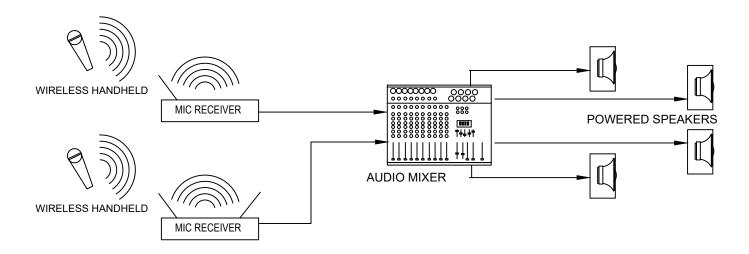


MEETING ROOMS 1,2 and 3









## **COVERED COURT**

## **GENERAL NOTES**

#### ALL ELECTRICAL WORKS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE, ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANIES.

2. THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEERS FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETION OF WORK

3. ALL MATERIALS TO BE USED SHALL BE NEW AND AND INSTALLED IN APPLICATIONS FOR WHICH THEY ARE

4. ALL CONDUITS SHALL BE POLYVINY, CHLORIDE CONDUIT (PVC) EXCEPT AS NOTED ON THE PLANS AND SPECIFICATIONS. REFER TO SPECIFICATION FOR INSTALLATION REQUIREMENT

5. MINIMUM SIZE OF CONDUIT SHALL BE ZOMM DIAMETER.

6. ALL CONDUITS SHALL BE CONCEALED UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. EXPOSED-CONDUIT RUNS SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE BUILDING LINE AND SUPPORTED BY CONDUIT CLAMPS EVERY 1.5 METERS

7. PROVIDE GALVANIZED PULLING WIRE GA. 18 FOR ALL EMPTY CONDUITS.

8. PULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE PLANS

9. FOR BOXES WITH MORE THAN FOUR WIRES ENTERING USE 0: 10M X 0: 10M SQUARE BOX WITH ONE ADAPTER RING (TYPICAL FOR RECEPTACLE BIOXES).

10. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL BE 3 WIRE 3.5 SQ.MM THHM UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL BE 3.5 SQ.MM THHN.

11. ALL DUPLEX RECEPTACLE OUTLETS SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 22/0V.

12. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GFC!" ON THE PLAN.

13. ALL METALLIC CONDUITS CABINETS AND EQUIPMENTS SHALL BE PROPERLY GROUNDED AND BONDED.

14. UNPROTECTED CONDUIT RISERS AND EXPOSED CONDUIT SHALL BE RIGID STEEL CONDUIT:

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION OF SHOP OR CONSTUCTION DRAWINGS

16. REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL SEQUENCES AS SPECIFIED AND DRAS SHOWN UNDER THEIR RESPECTIVE SECTIONS.

17. PROVIDE ALL SUPPLEMENTARY SUPPORT STEEL IN CLOSETS, SHAFTS, PIPE SPACES, ETC. TO SPAN BUILDING STRUCTURAL ELEMENTS AND SUPPORT FLECTRICAL RACEWAYS AND EQUIPMENT. ALL ELECTRICAL WORKS SHALL BE SUPPORTED INDEPENDENTLY AND NOT ON INSTALLATIONS OF OTHER TRADES.

18. IDENTIFICATIONS OF SYSMBOLS APPROPRIATE FOR EACH BID PACKAGE IS NOTED TO ASSIST CONTRACTOR FOR QUICK DEVICE AND EQUIPMENT IDENTIFICATION AND REFERENCE ONLY. CONTRACTOR MUST FAMILIARIZE WITH ALL SYMBOLS FOR PROPER EXECUTION OF HIS WORK.

19. POWER SUPPLY TO THE BUILDING SHALL BE 400/23G VOLTS, THREE PHASE, 4-WIRE, 60Hz.

20. WIRES SHALL BE COLOR CODED AS FOLLOWS:

Phase A - Black
Phase B - Red
Phase C - Blue
Neutral - Yellow

Ground - Green

21. ALL-ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

## LEGENDS AND SYMBOLS

S	SINGLE POLE WALL SWITCH 15AMP., 240 VOLTS
S <sub>2</sub>	DUPLEX SWITCH, 2 SINGLE POLE SWITCHES ON GANG SWITCH PLATE 15AMP., 240 VOLTS
S <sub>3</sub>	TRIPLEX SWITCH, 3 SINGLE POLE SWITCHES ON GANG SWITCH PLATE 15AMP., 240 VOLTS
S <sub>3</sub> W	THREE-WAYSWITCH 15AMP., 240 VOLTS
S <sub>4</sub> W	FOUR-WAY SWITCH 15AMP., 240 VOLTS
So	LIGHT DIMMING SWITCH
0-	SINGLE CONVENIENCE OUTLET, GROUNDING TYPE, 15AMP., 240 VOLTS
9	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 15AMP., 240 VOLTS
э сн	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 15AMP., 240 VOLTS "CH" DENOTES COUNTER HEIGHT
GFCI	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 15AMP., 240 VOLTS "GFCI" DENOTES GROUND FAULT CIRCUIT INTERRUPTER
<b>⊜</b> FL	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 15AMP., 240 VOLTS "FL" DENOTES FLOOR OUTLET
<b>&gt;</b> WP	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 15AMP., 240 VOLTS "WP" DENOTES WEATHER PROOF
D SPO	SINGLE CONVENIENCE OUTLET, GROUNDING TYPE, 20AMP., 240 VOLTS "SPO" SPECIAL PURPOSE OUTLET
A	MOTION SENSOR MODEL BMSA2202 OR APPROVED EQUAL
В	MOTION SENSOR MODEL BMSA1204 OR APPROVED EQUAL
	CONCEALED OR EMBEDDED CONDUIT RUN
	UNDERGROUND OR UNDER FLOOR CONDUIT RUN
$\rightarrow$	CIRCUIT HOMERUN
- II-	GROUNDING SYSTEM
~	CIRCUIT BREAKER
1863	DISTRIBUTION PANELBOARD
0	ELECTRIC SERVICE METER
<u></u>	GENERATOR SET
-	SERVICE ENTRANCE
	REINFORCED CONCRETE PEDESTAL

## LEGENDS AND SYMBOLS

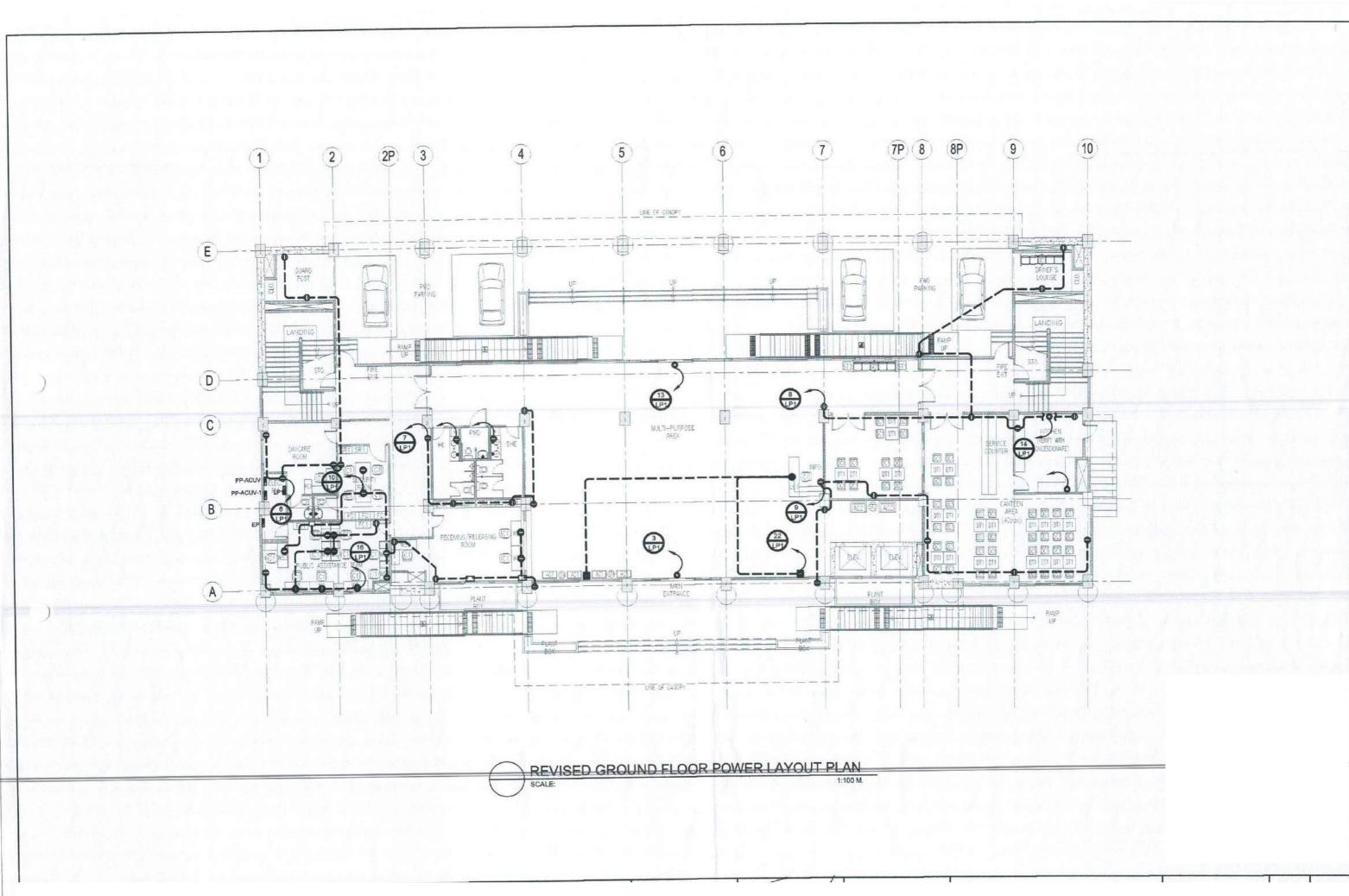
TYPE	SYMBOL	WATTAGE	BULB/TUBE TYPE	WATTAGE	MODEL
1		1X10	LED	DUST PROOF SURFACE TYPE	FLSSDP1X20 OR APPROVED EQUAL
2		1X20	LED	T8 GRID FIXTURE WITH ALUMINUM REFLECTOR, POWDER COATED BASE, SCRATCH PROOF, 12"X48", RECESSED TYPE	GPL7362WD OR APPROVED EQUAL
3		2X20	LED	DUST PROOF SURFACE TYPE	FLSSDP2X40 OR APPROVED EQUAL
4		2X20	LED	T8 GRID FIXTURE WITH ALUMINUM REFLECTOR, POWDER COATED BASE, SCRATCH PROOF, 12"X48", RECESSED TYPE	GPL7362WD OR APPROVED EQUAL
5		2X20	LED	INDUSTRIAL TYPE WITH ALUMINUM REFLECTOR, SURFACE MOUNTED	ESLIA 2X40/1 OR APPROVED EQUAL
6		7.5	LED COB MR16 DIMMABLE	DOWNLIGHT CASING, RECESSED TYPE, 95mm x 30mm	DLR-MR16S1 OR APPROVED EQUAL
7	- VIVI	10	LED	RECESS ROUND DOWNLIGHT FIXTURE WITH GLASS,4"Ø	LL-2.5 701-4WHT OR APPROVED EQUAL
8		13.5	LED DIMMABLE	RECESS ROUND DOWNLIGHT FIXTURE WITH GLASS,6"Ø	LL-5701-4 WHT OR APPROVED EQUAL
9		15	LED	RECESS ROUND DOWNLIGHT FIXTURE WITH GLASS,6"Ø	LL-5701-4 WHT OR APPROVED EQUAL
10		18	LED	VERTICAL DOWNLIGHT RECESSED TYPE WITH GLOSSY REFLECTOR,8*Ø	FD10WH8 OR APPROVED EQUAL
11		18	LED	OUTDOOR FIXTURE,GLOBE SERIES,PLAIN WHITE OPAL	FOGL533/12* OR APPROVED EQUAL
12		18	LED	DRUM PENDANT LIGHTING FIXTURE WITH WHITE COTTON SHADE AND MATCHING FABRIC DIFFUSER, DIAMETER=19.75", HEIGHT=8"	OR APPROVED EQUAL
13		18	LED PAR COB DIMMABLE	PAR 30 ALUMINUM HOUSING	PAR30TH OR APPROVED EQUAL
14		50	LED FLOODLIGHT	LED WEATHERPROOF ROUND FLOODLIGHT	LWFL-50WDL OR APPROVED EQUAL
15		100	LED	LED ROAD LIGHT, 150 DEGREE BEAM ANGLE, ACCURATE IN LIGHT DISTRIBUTION FOR BETTER ILLUMINATION AND 20FT HIGH STEEL POST	LRL-100WDL OR APPROVED EQUAL
16		150	LED	HIGH BAY LIGHTING FIXTURE, IP65, 150X33X320	EHD3150DL OR APPROVED EQUAL
17		8W/m	LED	STRIP LIGHT,350lm/m,220V	LSAC-8W-WW OR APPROVED EQUAL
18		2X3W	LED	EMERGENCY LIGHT,12V,9.0Ah,8 HOURS PERFORMANCE TIME	AEL-9032L OR APPROVED EQUAL
19			LED	LED EXIT SIGN,ACRYLIC,TRANSPARENT/GREEN,SINGLE FACE	LED/X-300 OR APPROVED EQUAL
20		18	LED	SQUARE COMMERCIAL DOWNLIGHT WITH HOUSING	DLH31-191-AR111 WHT OR APPROVED EQUAL

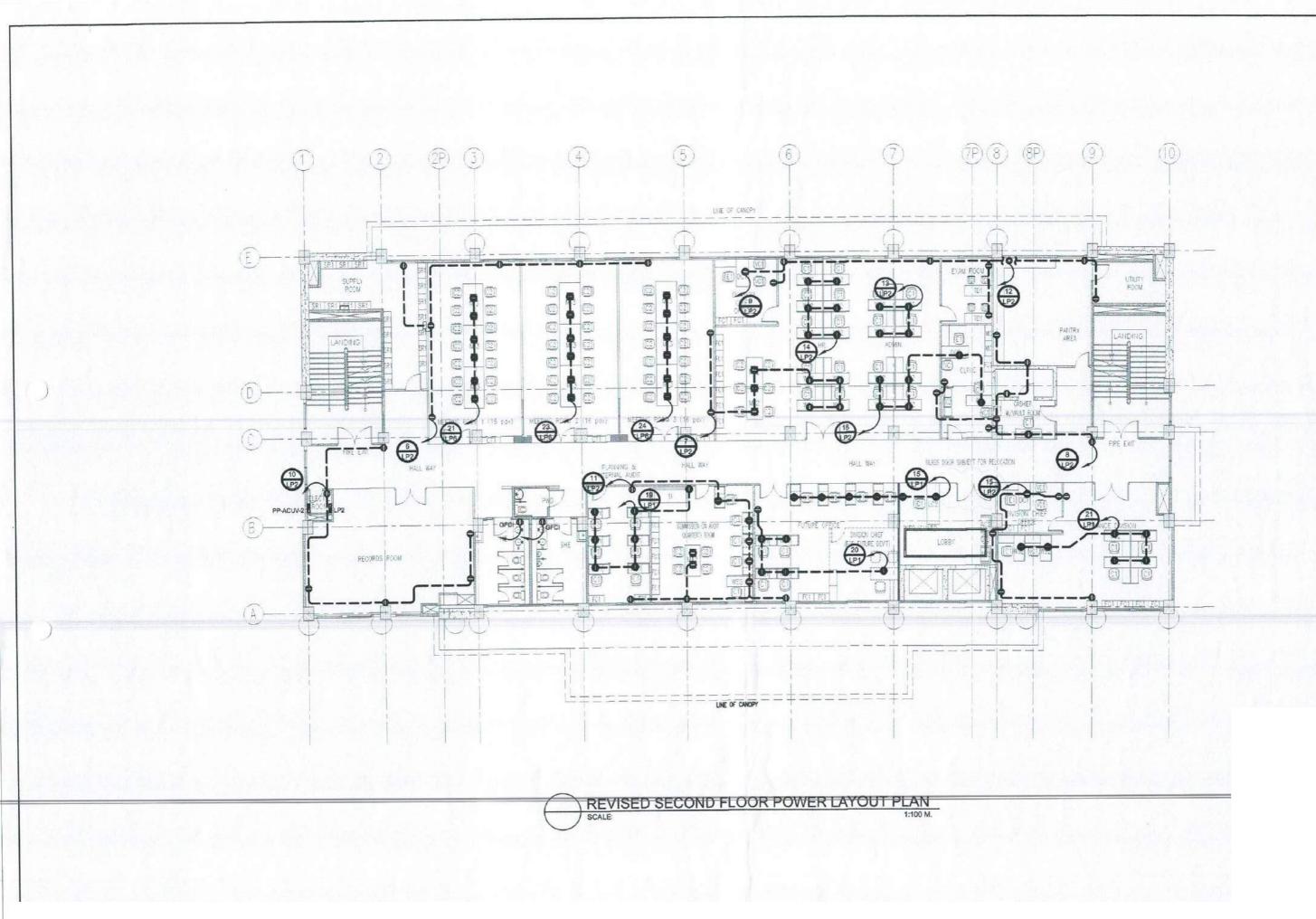
### ABBREVIATIONS:

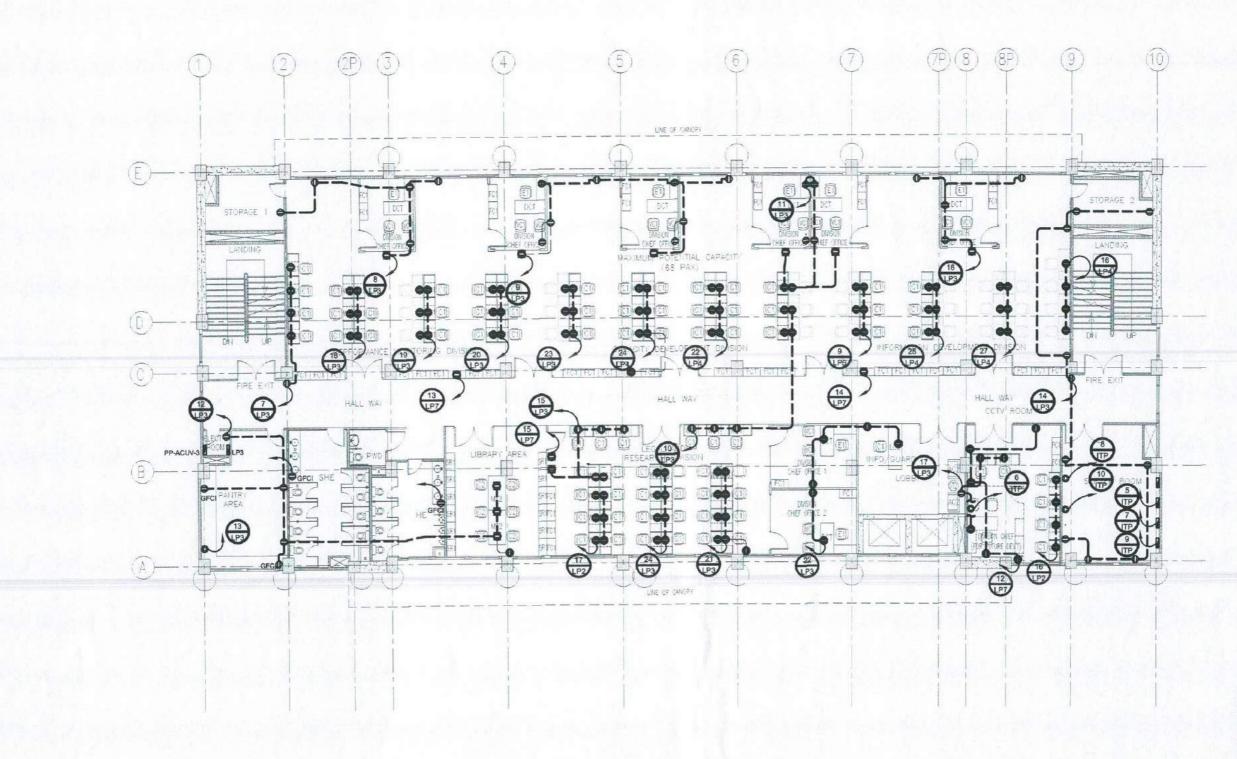
A, AMP	AMPERE
AF	AMPERE FRAME
AT	AMPERE TRIP
BCW	BARE COPPER WIRE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
P	CONCRETE PEDESTAL
Ø/DIA.	DIAMETER
ENCL	ENCLOSURE, ENCLOSED
G, GND	GROUND
1 PS	HIGH PRESSURE SODIUM
Hz	HERTZ
IC	INTERRUPTING CAPACITY
KAIC	KILOAMPERE INTERRUPTING CAPACIT
KVA	KILOVOLT-AMPERE
KWHM	KILOWATT-HOUR METER
L	LENGTH
LED	LIGHT EMITTING DIODE LUMINAIRE

## ABBREVIATIONS:

M	METER
mm.	MILLIMETER
NEMA	NATIONAL ELECTRIC MANUFACTURES ASSOCIATION
P	POLE
PNL	PANEL
PH	PHASE
UPVC PNS14	UNPLASTICIZED POLYVINYL CHLORIDE PHILIPPINE NATIONAL STANDARDS 14
RSC	RIGID STEEL CONDUIT
SLP	STREET LIGHT PANELBOARD
THW	MOISTURE AND HEAT RESISTANT THERMOPLASTIC
TYP.	TYPICAL
TW	MOISTURE AND HEAT THERMOPLASTIC
THHN	FLAME RETARDANT, MOISTURE & HEAT RESISTANCE
V	VOLT







NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE
REVISED IMPLIED/INFO RILES AND REGULATION OF RA. 016A,
APPROAL OF THE ANNORMED DIFFIN OFFICIALS OF DEBILED
ENGINEERING SAREIS AND DESIGN UNDEFINED BY CONSULTIVITS
HETTIGET DIMENSIES THE RESPONSIBILITY OF THE LATTER
FOR THE RESPONSIBILITY TO APPROAMS OFFICIALS.

REVISED THIRD FLOOR POWER LAYOUT PLAN 1:100 M. SCALE:

THE DESIGN CONSULTING SHILL BE HELD PALLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY DUE TO FAILTY DESIGN EXCEPT FOR THE CHANGES MADE MITHOUT THE OF THE DESIGNER.

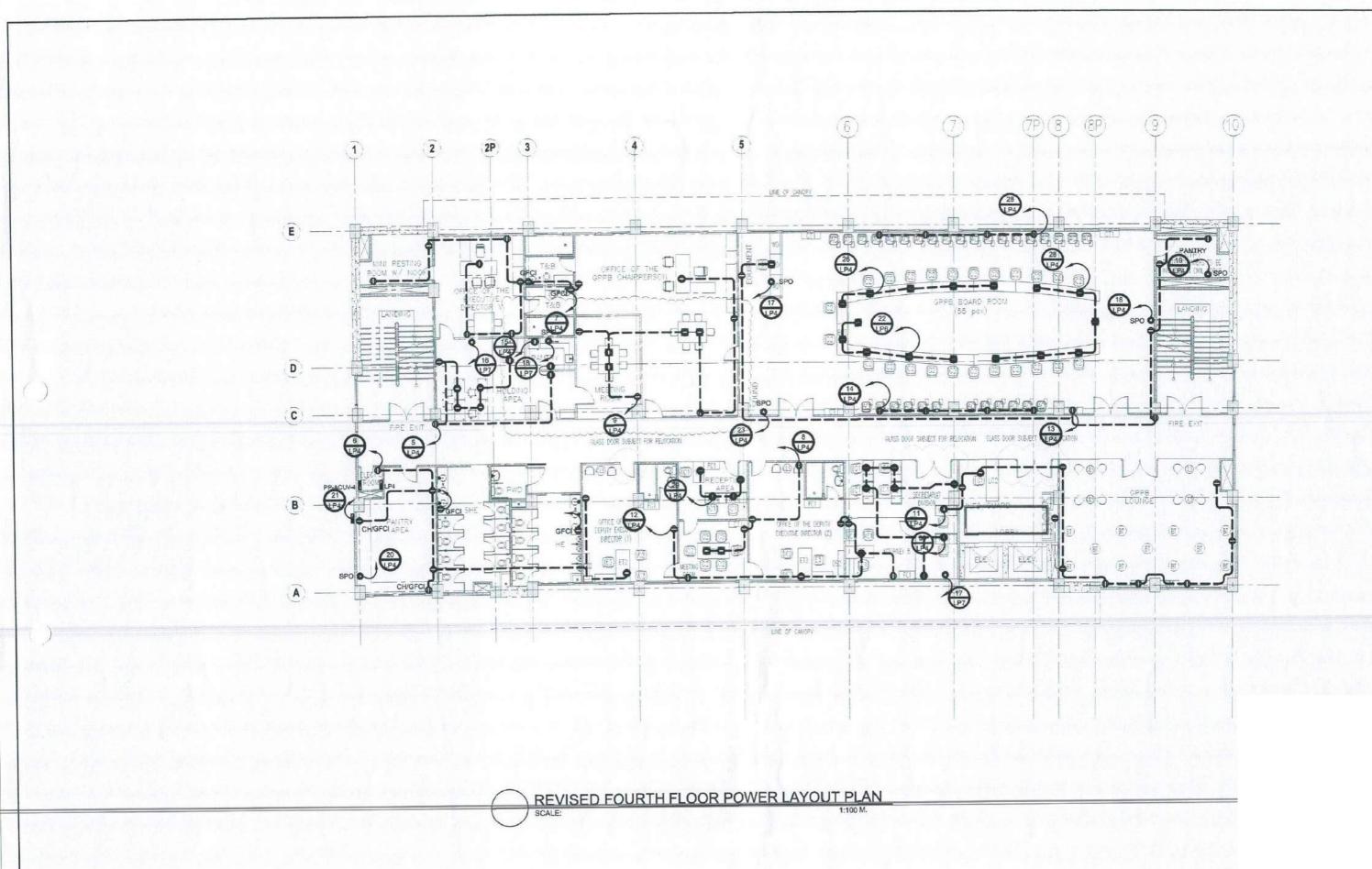
ORVILLE R. SINGSON

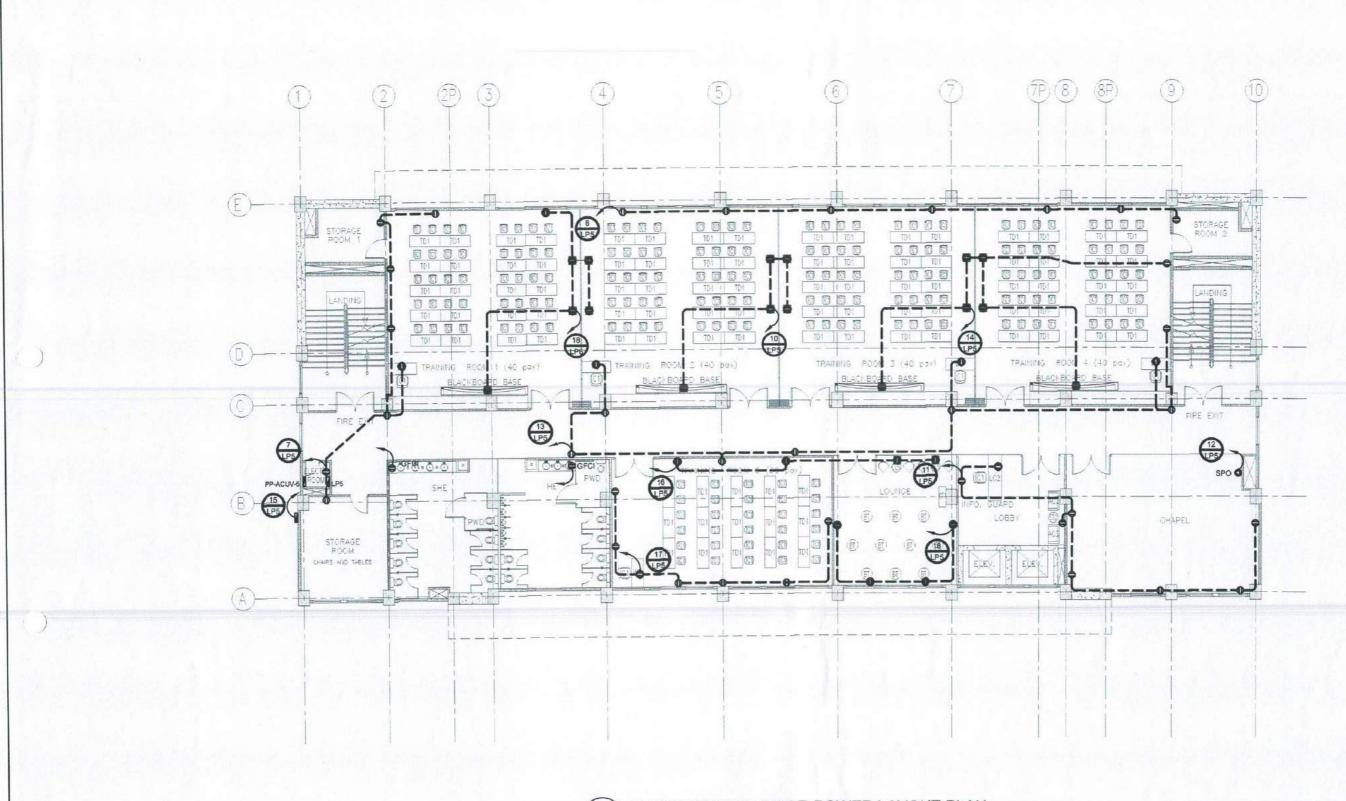
ELECTRICAL DESIGN

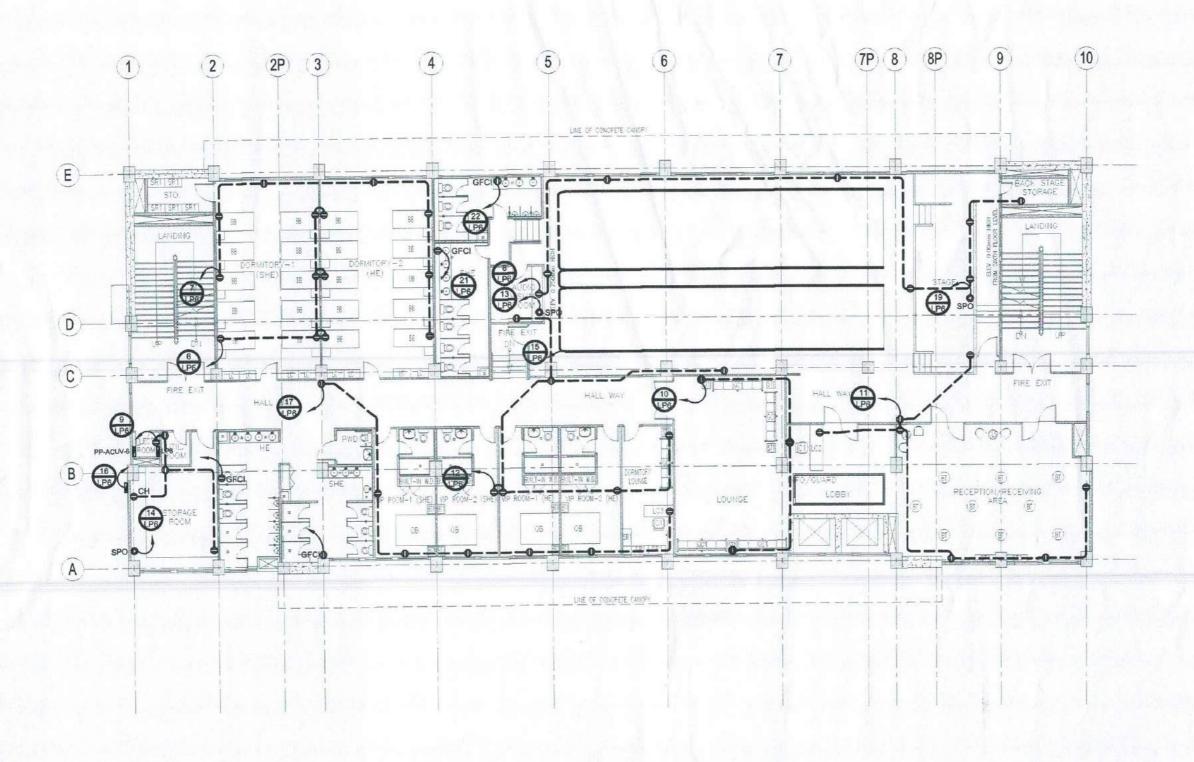
POSITION: ELECTRICAL ENGINEER

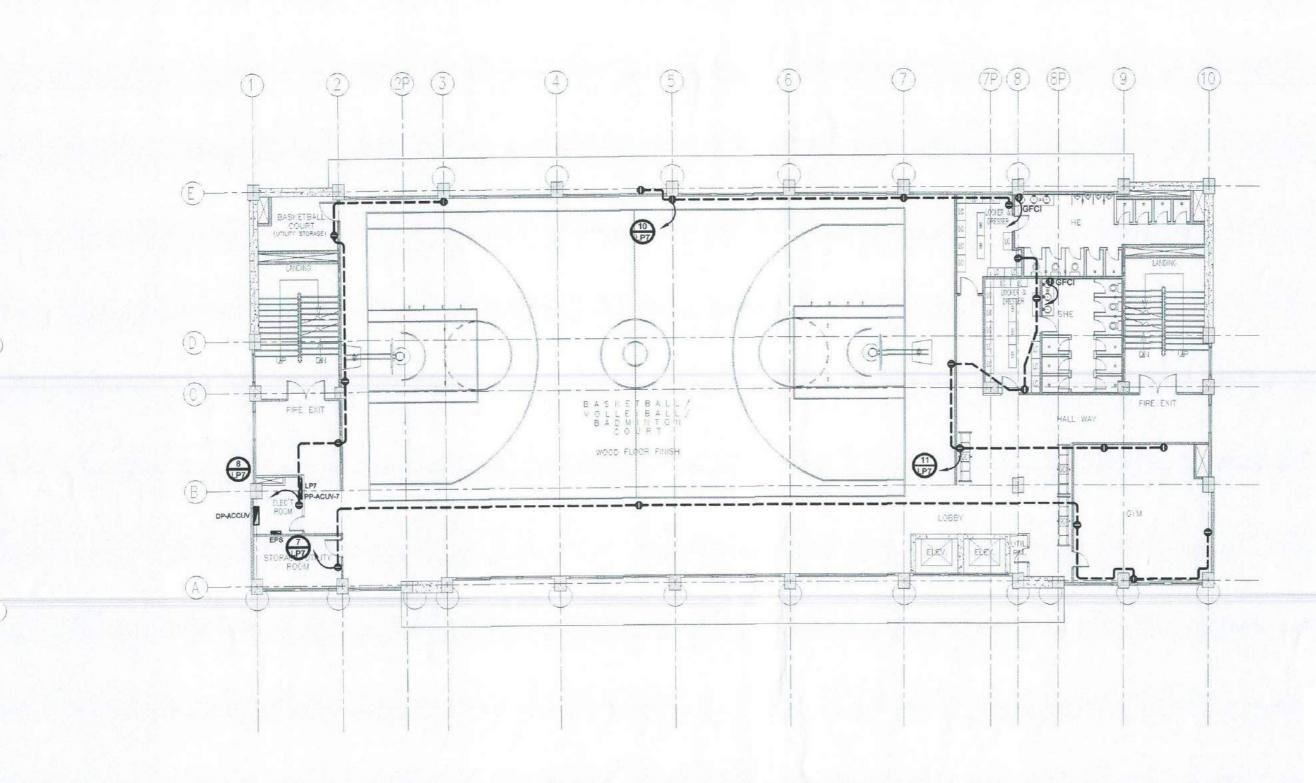
PRC No: 0004017PTR TIN No: 155-838-103

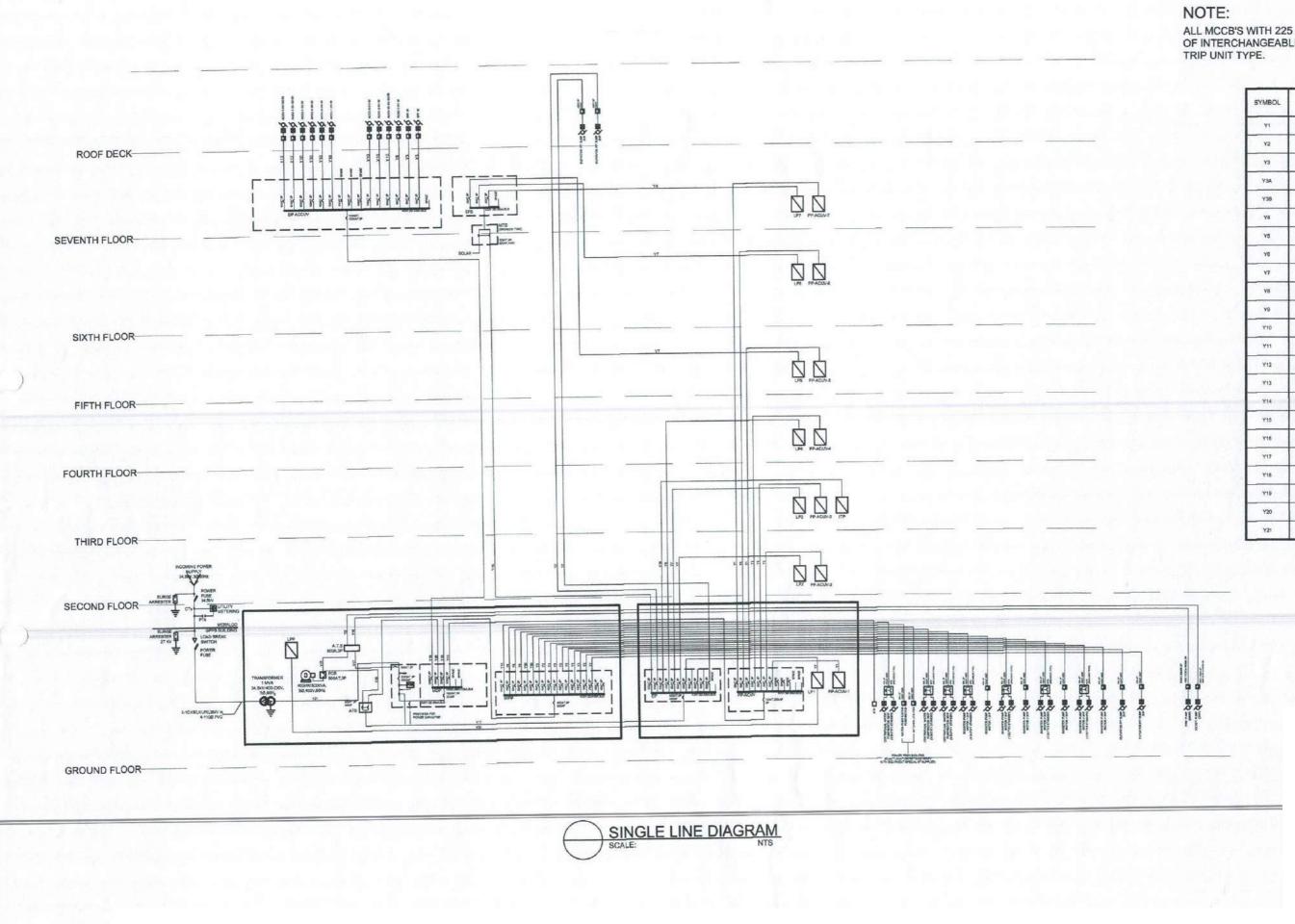
PTR No: 7222893, 01-05-18, MARIKINA CITY











ALL MCCB'S WITH 225 AF AND UP SHALL BE OF INTERCHANGEABLE THERMAL MAGNETIC TRIP UNIT TYPE.

SYMBOL	SIZES OF WIRES & CONDUIT						
Y1	4-5.5mm <sup>2</sup> THHN, 1-5.5mm <sup>2</sup> TW in 20mm@ RSC						
Y2	3-5.5mm <sup>2</sup> THHN, 1-5.5mm <sup>2</sup> TW In 25mmØ PVC						
Y3	3-5.0mm <sup>2</sup> THHN, 1-8.0mm <sup>2</sup> TW in 25mmØ RSC						
Y3A	2-8.0mm <sup>8</sup> TH HN, 1-8.0mm <sup>8</sup> TW in 32mmØ PVC						
Y38	2-8.0mm <sup>2</sup> THHN, 1-8.0mm <sup>2</sup> TW in 32mmØ PVC						
Y4	4-8.0mm <sup>2</sup> THHN, 1-8.0mm <sup>2</sup> TW in 25mmØ RSG						
Y6	3-14.0mm <sup>2</sup> THHN, 1-8.0mm <sup>2</sup> TW in 25mmØ RSC						
Y6	3-14mm <sup>2</sup> THHN, 1-8.0mm <sup>2</sup> TW in 40mmØ PVC						
Y7	4-14mm <sup>2</sup> THHN, 1-8.0mm <sup>2</sup> TW in 32mm® RSC						
Y8	3-22mm <sup>2</sup> THHN, 1-8.0mm <sup>2</sup> TW in 32mmØ RSC						
Y9	4-22mm <sup>2</sup> THHN, 1-14mm <sup>2</sup> TW in 32mmØ RSC						
Y10	3-30mm <sup>2</sup> THHN, 1-14mm <sup>2</sup> TW In 32mm <sup>2</sup> RSC						
Y11	4-30mm² THHN, 1-14mm² TW in 50mmØ PVC						
Y12	3-38mm² THHN, 1-14mm² TW in 40mmØ RSC						
Y13	4-38mm² THHN, 1-14mm² TW in 50mm@ PVC						
Y14	4-38mm <sup>2</sup> THHN, 1-14mm <sup>2</sup> TW in 50mmØ RSC						
Y15	3-50mm <sup>2</sup> THHN, 1-14mm <sup>2</sup> TW in 63mmØ PVC						
Y16	4-50mm <sup>2</sup> THHN, 1-14mm <sup>2</sup> TW in 50mmØ RSC						
Y17	3-80mm <sup>2</sup> THHN, 1-50mm <sup>2</sup> TW In 75mmØ PVC						
Y18	2 SETS 4-100mm <sup>2</sup> THHN, 1-30mm <sup>2</sup> TW in 85mmØ RSC						
Y19	4 SETS 3-150mm² THHN, 1-30mm² TW in 90mmØ RSC						
Y20	2 SETS 4-150mm <sup>2</sup> THHN, 1-36mm <sup>2</sup> TW in 90mmØ PVC						
Y21	6 SETS 4-200mm <sup>2</sup> THHN, 1-100mm <sup>2</sup> TVI in 110mm <sup>2</sup> PVC						

#### SCHEDULE OF LOAD

2 LIG 3 AU 4 LIG 5 LIG	LOAD DESCRIPTION  SHTINGS  SHTINGS  JTOMATED SLIDING DOOR  SHTINGS	1471	VOLTS 100/230 100/230	AN 1044	BN	CN	AT AF PO	LEKAIC	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV 2-3.5mm2 THHN WIRE STRANDED, +
2 LIG 3 AU 4 LIG 5 LIG	SHTINGS UTOMATED SLIDING DOOR	1471					-	+ + -	
2 LIG 3 AU 4 LIG 5 LIG	SHTINGS UTOMATED SLIDING DOOR	1471							
2 LIG 3 AU 4 LIG 5 LIG	SHTINGS UTOMATED SLIDING DOOR	1471					15 50 1P	10	1-3,5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
3 AU 4 LIG 5 LIG	JTOMATED SLIDING DOOR		100/230			-	15 50 17	10	2-3.5mm2 THHN WIRE STRANDED, +
3 AU 4 LIG 5 LIG	JTOMATED SLIDING DOOR		100/230						1-3,5mm2 TW (G) WIRE STRANDED, 20mmDIA PI
4 LIG		250		1471			15 50 1P	10	2-3.5mm2 THHN WIRE STRANDED, +
4 LIG		250			0.0				1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA P
5 LIG	GHTINGS		100/230		250		15 50 1P	10	2-3.5mm2 THHN WIRE STRANDED, +
5 LIG	GHTINGS	350			75355		45.50.50	10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA P
		1341	400/230		1341	1	15 50 1P	10	2-3.5mm2 THHN WIRE STRANDED, +
									1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA P
6 CO	GHTINGS	574	400/230			5	74 15 50 1P 10	3	2-3.5mm2 THHN WIRE STRANDED, +
6 CO						1700	4		1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA P
-	ONVENIENCE OUTLET (6X180VA)	1080	400/230			10	80 20 50 1P 10	,	2-3.5mm2 THHN WIRE STRANDED, +
								.]	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA P
7 00	ONVENIENCE OUTLET (7X180VA)	1250	400/230	1260		-	20 50 1P	10	
							4 3000		2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA P
8 00	ONVENIENCE OUTLET (7X180VA)	1260	400/230	1260	1		20 50 1P	10	
					100000		100		2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (6) WIRE STRANDED, 20mmDIA F
9 00	ONVENIENCE OUTLET (7X180VA)	1260	400/230		1260		20 50 1P	10	
									2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA F
10 00	ONVENIENCE OUTLET (11X180VA)	1980	400/230		1980	1	20 SO 1P	10	
						1 23			2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
11 SP	PECIAL PURPOSE OUTLET	1500	400/230		1	15	500 20 50 1P 1	D	
						100			2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
12 LK	IGHTINGS	1984	400/230		-	19	984 20 50 1P 1	D	
					4				2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
13 AF	UTOMATED SLIDING DOOR	250	400/230	25	0		20 50 1P	10	
11 11 1				200					2-3,5mm2 THHN WIRE STRANDED, + 1-3,5mm2 TW (G) WIRE STRANDED, 20mmDIA
14 58	PECIAL PURPOSE OUTLET	1500	400/230	150	0	4	20 50 1P	10	
-					1				2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
15 C	ONVENIENCE OUTLET (6X180VA)	1080	400/230		108	)	20 50 19	10	2-3.5mm2 THHN WIRE STRANDED, 20111100A
					Your				1-3.5mm2 THAN WIRE STRANDED, 20mmDIA
16 C	ONVENIENCE OUTLET (6X180VA)	1440	400/230		144	0	20 50 19	10	2-3.5mm2 THHN WIRE STRANDED, +
				1					1-3.5mm2 TW (6) WIRE STRANDED, 20mmDIA
17 F	ACP	250	400/230	1		1	250 20 50 1P 1	.0	
						1	and Contract		2-8.0mm2 THHN WIRE STRANDED, + 1-8.0mm2 TW (G) WIRE STRANDED, 32mmDIA
18 LF	PP	5604	400/230		-	56	604 40 50 1P 1	10	2-3.5mm2 THHN WIRE STRANDED, +
			-	100					1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
190	CONVENIENCE OUTLET (7X180VA)	1260	400/230	126	0		20 50 18	7 10	2-3.5mm2 THHN WIRE STRANDED, +
				1					1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
200	CONVENIENCE OUTLET (6X180VA)	1080	400/230	108	.0	-	20 50 1	7 10	2-3.5mm2 THHN WIRE STRANDED, +
					The same		10000		1-3,5mm2 TW (G) WIRE STRANDED, 20mmDIA
210	CONVENIENCE OUTLET (6X180VA)	1080	400/230		108	.0	20 50 1	7 10	2-3.5mm2 THHN WIRE STRANDED, +
		100			720		-		1-3.5mm2 THAN WIKE STRANDED, 20mmDIA
22 0	CONVENIENCE OUTLET (6X180VA)	540	400/230		54	.0	20 50 1	7.10	1-3.3mm2 TW (G) WINE STRANDED, 20mm02
	SPACE		400/23			1	-1-1-	-	
245	SPACE		400/23	0		-			4-14mm2 THHN WIRE STRANDED, +
			100	913	2012	0.060000	60 100 3P 14		1-8.0mm2 TW (G) WIRE STRANDED, 32mmDIA

CONNECTED LOAD = 10992 VA X 3 = 32976 VA IF = 32976 VA / (400 X 1.732) = 47.60 A IDF = 90% DF (47.60) = 42.84 A ICB = 1.15(42.84) = 49.26A USE : 60AT, 100AF, 3P, 400V, 14kAIC

IF = 1.25(42.84) = 53.55 A

USE: 4-14mm2 THHN WIRE + 1-8.0mm2 TW (G) WIRE in 32mmdia RSC (53.55A/70A)

#### SCHEDULE OF LOAD

				1	A PER PHA	SE	BRANCH CKT. BREAKE	R SIZE OF WIRE AND CONDUIT
KT NO.	LOAD DESCRIPTION	VAVO	ELTS	AN	BN	CN	AT AF POLE KAIC	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
		7		1				2-3.5mm2 THHN WIRE STRANDED, +
1	LIGHTINGS	1382 4	00/230	1382			15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
	Cidiffinas		-					2-3.5mm2 THHN WIRE STRANDED, +
2	LIGHTINGS	1630 4	00/230	1630			15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
-	Continuo							2-3.5mm2 THHN WIRE STRANDED, +
3	LIGHTINGS	1297 4	00/230		1297		15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mm DIA PV
-								2-3.5mm2 THHN WIRE STRANDED, +
4	LIGHTINGS	1436 4	00/230		1436		15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
-		1000						2-3.5mm2 THHN WIRE STRANDED, +
5	LIGHTINGS	640 4	00/230			640	15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
-	ECONOMIC CONTRACTOR OF THE PROPERTY OF THE PRO		and and a second					2-3.5mm2 THHN WIRE STRANDED, +
6	CONVENIENCE OUTLET (5X180VA)	1260 4	00/230			1080	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
	(1000)	18						2-3.5mm2 THHN WIRE STRANDED, +
7	CONVENIENCE OUTLET (9X180VA)	1620 4	00/230	1620			20 SO 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDtA PV
				1		To all all		2-3.5mm2 THHN WIRE STRANDED, +
8	CONVENENCE OUTLET (9X180VA)	1620 4	00/230	1620			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
_								2-3.5mm2 THHN WIRE STRANDED, +
9	CONVENIENCE OUTLET (8X180VA)	1440 4	00/230		1440		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
					-			2-3.5mm2 THHN WIRE STRANDED, +
10	CONVENIENCE OUTLET (8X180VA)	1440 4	00/230	1	1440		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
11	CONVENENCE OUTLET (11X18DVA)	1980 4	00/230			1980	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
12	SPECIAL PURPOSE OUTLET	1500 4	100/230			1500	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
13	CONVENIENCE OUTLET (4X180VA)	720 4	100/230	720			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
14	CONVENIENCE OUTLET (6X180VA)	1080 4	100/230	1080			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
					2000		See	2-3.5mm2 THHN WIRE STRANDED, +
15	CONVENENCE OUTLETS (6X18DVA)	1080 4	100/230		1080		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
				100000				2-3.5mm2 THHN WIRE STRANDED, +
16	CONVENIENCE OUTLET (6X180VA)	1080 4	100/230	F	1080		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, 4
17	CONVENIENCE OUTLET (7X180VA)	1260 4	000/230			1260	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
								2-3.5mm2 THHN WIRE STRANDED, +
18	CONVENIENCE OUTLET (6X180VA)	1080 4	100/230			1080	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
				122	193720			4-14mm2 THHN WIRE STRANDED, +
	TOTAL	23545		8052	7773	7540	60 100 3P 14	1-8.0mm2 TW (G) WIRE STRANDED, 32mmDIA RSC

CONNECTED LOAD = 8052 VA X 3 = 24,156 VA IF = 24156 VA / (400 X 1.732) = 34.87 A IDF = 100% DF (34.84) = 37.87 A IDF = 1.15(3.8.87) = 40,20A USE : GOAT, 100AF, 3P, 400V, 14kAIC

IF = 1.25(34.87) = 43.58 A

USE: 4-14mm2 THHN WIRE + 1-8.0mm2 TW (G) WIRE in 32mmdia RSC (43.58A/70A)

#### SCHEDULE OF LOAD

PANEL LP3: SURFACE MOUNTED, NEMA L ENCLOSURE WITH NEUTRAL AND GROUND TERMINAL

20.000	7470174004444			V	A PER PHA	St	BRANCH CKT. BREAK	
T NO.	LOAD DESCRIPTION	VA VOL	12	AN	BN	CN	AT AF POLE KAIC	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
- 1	LIGHTINGS	1244 400	0/230	1244			15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
	CONTROL CONTRO		,,,,,,					2-3.5mm2 THHN WIRE STRANDED, +
2	LIGHTINGS	1198 400	0/230	1198			15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
-	and the same of th	-	,,,,,,					2-3.5mm2 THHN WIRE STRANDED, +
7	LIGHTINGS	1244 400	0/230		1244		15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
4	LIGHTINGS	1483 400	0/230		1483		15 50 1P 10	1-3.5mm2 TW (G) WIRE 5TRANDED, 20mmDIA PV
-								2-3.5mm2 THHN WIRE STRANDED, +
5	LIGHTINGS	869 400	0/230			869	15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
	TANK TO THE PARTY OF THE PARTY		-					2-3.5mm2 THHN WIRE STRANDED, +
- 6	LIGHTINGS	1120 400	0/230			1120	15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
-			-					2-3.5mm2 THHN WIRE STRANDED, +
7	CONVENIENCE OUTLET (5X180VA)	900 400	0/230	900			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
-			and the same	1	1			2-3.5mm2 THHN WIRE STRANDED, +
8	CONVENIENCE OUTLET (GXIBOVA)	1080 400	0/230	1080			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
-						10000	0.00	2-3.5mm2 THHN WIRE STRANDED, +
9	CONVENIENCE OUTLET (10X180VA)	1800 400	0/230		1800		20 SO 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
-		30.30 (10)	9.00					2-3.5mm2 THHN WIRE STRANDED, +
10	CONVENIENCE OUTLET (7X180VA)	1260 400	0/230		1260		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
- 07	Service College	-	Section.		-			2-3.5mm2 THHN WIRE STRANDED, +
11	CONVENIENCE OUTLET (BX180VA)	1440 400	0/230			1440	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
						1	Contract of the Contract of th	2-3.5mm2 THHN WIRE STRANDED, +
12	CONVENIENCE OUTLET (9X180VA)	1620 400	0/230			1620	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
-		-	and the same				THE REAL PROPERTY AND ADDRESS OF THE PERTY ADDRESS OF TH	2-3.5mm2 THHN WIRE STRANDED, +
13	SPECIAL PURPOSE OUTLET	1500 400	0/230	1500			20 SO 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
		1	909000	-				2-3.5mm2 THHN WIRE STRANDED, +
14	CONVENIENCE OUTLET (10X180VA)	1800 400	0/230	1800			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
15	CONVENIENCE OUTLET (5X180VA)	900 400	0/230		900		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
15	CONVENIENCE OUTLET (5X180VA)	900 400	0/230		900		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
- 7					-			2-3.5mm2 THHN WIRE STRANDED, +
17	CONVENIENCE OUTLET (7X180VA)	1250 400	0/230			1260	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
						-		2-3.5mm2 THHN WIRE STRANDED, +
18	CONVENIENCE OUTLET (6X180VA)	1080 400	0/230			1080	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
19	CONVENIENCE OUTLET (6X180VA)	1080 400	0/230	1080			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
20	CONVENIENCE OUTLET (6X180VA)	1080 40	0/230	1080			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
				distant.	DVC.			2-3.5mm2 THHN WIRE STRANDED, +
21	CONVENIENCE OUTLET (9X180VA)	1620 40	0/230		1620		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
					199	-		2-3.5mm2 THHN WIRE STRANDED, +
- 22	CONVENIENCE OUTLET (CX18DVA)	1080 40	0/230		1080		20 50 1P 10	1-5.5mm2 TW (G) WIRE STRANDED, 20mmD(A PV
								2-3.5mm2 THHN WIRE STRANDED, +
23	CONVENIENCE OUTLET (6X180VA)	1080 40	0/230			1080	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
	1	1 200					TO THE PARTY OF TH	2-3.5mm2 THHN WIRE STRANDED, +
24	CONVENIENCE OUTLET (8X180VA)	1440 40	0/230			1440	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
	The second secon			1 1 1 1				4-14mm2 THHN WIRE STRANDED, +
	TOTAL	30078		9882	10187 990	9 60 100 3P	14	1-8.0mm2 TW (G) WIRE STRANDED, 32mmDIA RSI

CONNECTED LOAD = 10287 VA X 3 = 30,861 VA IF = 30861 VA / (400 X 1.732] = 44.55 A 10F = 105% DF (144.55) = 44.55 A LCE = 1.15(4.55) = 51.23 USE: 60AT, 100AF, 3P, 400V, 14kAIC

IF = 1.25(44.55) = 55.68 A

USE: 4-14mm2 THHN WIRE + 1-8.0nm2 TW (G) WIRE in 32mmdia RSC (55.68A/70A)

#### CHEDINE DELOAD

	SURFACE MOUNTED, NEMA 1 ENCLOSU	1000		VA PER PHASE			36	BRANCH CKT. BREA	KER SIZE OF WIRE AND CONDUIT  2-3.5mm2 THHN WIRE STRANDED, +
NO.	LOAD DESCRIPTION	VAV	OLTS	AN	BN		CN	AT AF POLE RAIC	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA PI
				-					2-3.5mm2 THHN WIRE STRANDED, +
	LIGHTINGS	1440	100/230	144	0			15 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA PA
1	LIGHTINGS	2440	100/230	1					2-3,5mm2 THHN WIRE STRANDED, +
	LIGHTINGS	1911	400/230	191	1			15 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA P
4	LIGHTINGS	-	-	1				537.57	2-3.5mm2 THHN WIRE STRANDED, +
-	LIGHTINGS	1544	400/230			1544		15 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA P
3	LIGHTINGS	1751/14		1	+			1000	2-3.5mm2 THHN WIRE STRANDED, +
	LIGHTINGS	1128	400/230			1128		15 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA P
4	LIGHTINGS	2460	100,200	1	-			1000	2-3.5mm2 THHN WIRE STRANDED, +
	CONVENIENCE DUTLET (9X180VA)	1620	400/230	1			1620	2050 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA P
5	CONVENIENCE DU ILET (SALBOVA)	2020	TOOL TOO	1	-		181(19)		2-3.5mm2 THHN WIRE STRANDED, +
	CONTRACTOR NOTET (DV1901A)	1620	400/230				1620	20 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA P
ь	CONVENIENCE OUTLET (9X180VA)	1020	100/250	-	+		7,000	PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	2-3.5mm2 THHN WIRE STRANDED, +
	HOLD PROPERTY OF THE PER CHANGE OF THE	1800	400/230	180	00			20 50 1P 10	1-3.5mm2 TW (G) WIRE STEANDED, 20mmDIA P
7	CONVENIENCE SUTLET (10X180VA)	7000	HUUJ ZJO	200	~		-		2-3.5mm2 THHN WIRE STRANDED, +
		720	400/230	7	20			20 50 19 10	1-3.5mm2 TW (G) WIRE STEANDED, 20mmDIA P
8	CONVENIENCE DUTLET (4X180VA)	720	100/200	-				1000	2-3.5mm2 THHN WIRE STRANDED, +
		1440	480/230			1440		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA P
9	CONVENIENCE DUTLET (8X180VA)	1440	400/ 230	-	-	Testo		12020	2-3,5mm2 THHN WIRE STRANDED, +
			400/230			580		15 50 1P 10	1-3.5mm2 TW (G) WIRE STEANDED, 20mmDIA P
10	LIGHTING5	200	400/230		-	200		17.00.	2-3.Smm2 THHN WIRE STRANDED, +
		****	.nehan				100	020501910	1-3.5mm2 TW (G) WIRE STIANDED, 20mmDIA P
11	CONVENIENCE DUTLET (11X180VA)	1980	400/230	-	-		170	0 20 30 27 20	2-3.5mm2 THHN WIRE STRANDED, +
							126	0 20 50 1P 10	1-3.5mm2 TW (G) WIRE STIANDED, 20mmDIA P
12	CONVENIENCE DUTLET (7X180VA)	1260	400/230			-	120	0 20 50 IF 10	2-3.5mm2 THHN WIRE STRANDED, +
		1						20 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA P
13	CONVENIENCE OUTLET (7X180VA)	1260	400/230	12	PO		-	20 30 1F 10	2-3.5mm2 THHN WIRE STRANDED, +
							1	20 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA P
14	CONVENIENCE OUTLET (4X180VA)	720	400/230	7	20		-	20 50 AF AU	2-3.5mm2 THHN WIRE STRANDED, +
								20 50 1P 10	1-3.5mm2 TW (G) WIRE STIANDED, 20mmDIA P
15	REF	700	400/230		4	700	0	20 50 17 10	2-3.5mm2 THHN WIRE STRANDED, +
	CARROLL AND SALES OF THE SALES					-		20 50 1P 10	1-3.5mm2 TW (G) WIRE STIANDED, 20mmDIA P
16	CONVENIENCE OUTLET (4X180VA)	720	400/230	1	-	720	)	20 30 17 10	2-3.5mm2 THHN WIRE STRANDED, +
									1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA F
17	SPECIAL PURPOSE OUTLET	1500	400/230	3			150	0 20 50 1P 10	2-3.5mm2 THHN WIRE STRANDED, +
	A COLUMN TO SELECTION OF THE SECOND OF THE S	10000	Nurs asses					00 20 50 1P 10	1-3.5mm2 TW (6) WIRE STIANDED, 20mmDIA
21	S SPECIAL PURPOSE OUTLET	1500	400/230	)	-		150	0 20 20 15 10	2-3.5mm2 THHN WIRE STRANDED, +
				. 52				20 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA
1	SPECIAL PURPOSE OUTLET	1500	400/230	15	00		-	20 50 17 10	2-3.5mm2 THHN WIRE STRANDED, +
			V. Daniel					20 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA
2	SPECIAL PURPOSE OUTLET	1500	400/230	15	900		-	20 50 17 20	2-3.5mm2 THHN WIRE STRANDED, +
		1000							1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
	PROVISION FOR BILLBOARD	4000	400/230	)		400	0	20 50 1P 10	2-3.5mm2 THHN WIRE STRANDED, +
1		No.	St. Spice.			1000			1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
2	2 CONVENIENCE DUTLET (6X180VA)	1080	400/230			108	C	20 50 1P 10	2-3,5mm2 THHN WIRE STRANDED, +
							-		1-3.5mm2 TW (6) WIRE STRANDED, 20mmDIA
2	3 SPECIAL PURPOSE OUTLET	1500	400/230	0			150	00 20 50 1P 10	2-3.5mm2 THHN WIRE STRANDED, +
			No.				-522		1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
2	4 CONVENIENCE DUTLET (7X180VA)	1260	400/230	0			126	50 20 50 1P 10	2-3.5mm2 THHN WIRE STRANDED, +
			1000						1-3.5mm2 TW (6) WIRE STEANDED, 20mmDIA
2	5 CONVENIENCE OUTLET (6X180VA)	1080	400/230	0 1	080			20 50 1P 10	1-3.5mm2 TW (G) WIRE STEAMOED, 2011111014
								1000000000	2-3.5mm2 THHN WIRE STRANDED, +
2	6 CONVENIENCE DUTLET (SX180VA)	90	0 400/23	0	900			20 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA
								The control of the control	2-3.5mm2 THHN WIRE STRANDED, +
2	7 CONVENIENCE JUTLET (6X180VA)	108	400/23	0		108	90	20 50 19 10	1-3.5mm2 TW (G) WIRE STIANDED, 20mmDIA
								1000000	2-3.5mm2 THHN WIRE STRANDED, +
2	8 CONVENIENCE DUTLET (6X190VA)	108	0 400/23	0		108	10	20 50 1P 10	1-3.5mm2 TW (6) WIRE STLANDED, 20mmDIA
- 0					0			200	2-3.5mm2 THHN WIRE STRANDED, +
-	9 CONVENIENCE SUTLET (4X180VA)	72	0 400/23	0			7	20 20 50 1P 10	1-3.5mm2 TW (G) WIRE STLANDED, 20mmDIA
-	Description of the factory								2-3.5mm2 THHN WIRE STRANDED, +
8	O CONVENIENCE DUTLET (7X180VA)	90	0 400/23	10			9	00 20 50 1P 10	1-3.5mm2 TW (G) WIRE STEANDED, 20mmDIA
	D CONTENENTS POINT (PRINTY)		1						4-22mm2 THHN WIRE STRANDED, +
		4004					3860 70 10		1-14mm2 TW (d) WIRE STRANDED, 32mmDIA

CONNECTED LOAD = 13860 VA X 3 = 41580 VA IF = 41580 VA / (400 X 1.732) = 60.02 A IDF = 100% DF (60.02) = 60.02 A ICE = 1.15(60.02) = 60.028 USE : 70AT, 100AF, 3P, 400V, 14KAKC

IF = 1.25(60.02) = 75.02 A

USE: 4-22mm2 THHN WIRE+ 1-14mm2 TW (3) WIRE in 32mmdia RSC (75.02/70A)

#### SCHEDULE OF LOAD

	S SURFACE MOUNTED, NEMA 1 ENCLOSU			1	A PER PHA	SE	BRANCH CKT, BREAKER	SIZE OF WIRE AND CONDUIT
T NO.	LOAD DESCRIPTION	VAV	OLTS	AN	BN	CN	AT AF POLE KAIC	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
-		0.40	400/230	946			15 50 1P 10	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
1	LIGHTINGS	340	400/230	340	-	1	25.01.10	2-3.5mm2 THHN WIRE STRANDED, +
	LIGHTINGS	1615	400/230	1615			15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
- 4	Gentines		1000	-				2-3.5mm2 THHN WIRE STRANDED, +
2	LIGHTINGS	900	400/230		900		15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
-	DOMINIO	- 22						2-3.5mm2 THHN WIRE STRANDED, +
4	LIGHTINGS	900	400/230		900	)	15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
		1	1					2-3.5mm2 THHN WIRE STRANDED, +
5	LIGHTINGS	946	400/230			946	15 50 1P 10	1-3.5mm2 TW (5) WIRE STRANDED, 20mmDIA PVC
	Commission of the Commission o	111				1		2-3.5mm2 THHN WIRE STRANDED, +
6	LIGHTINGS	1310	400/230			1310	15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
		-						2-3.5mm2 THHN WIRE STRANDED, +
7	CONVENIENCE OUTLET (9X180VA)	1520	400/230	1620	)		20 SO 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
8	CONVENIENCE OUTLET (7X180VA)	1260	400/230	1260	)		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
9	CONVENIENCE OUTLET (6X180VA)	1080	400/230		1080	)	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, +
10	CONVENIENCE OUTLET (5X180VA)	900	400/230		900	)	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
								2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PW
11	CONVENIENCE OUTLET (8X180VA)	1440	400/230		-	1490	20 50 1P 10	2-3.5mm2 THHN WIRE STRANDED, +
		1.2	Laures.				20 50 1P 10	1-3.5mm2 TW (6) WIRE STRANDED, 20mmDIA PV
12	SPECIAL PURPOSE OUTLET	150	400/230	-	-	1500	20 50 1P 10	2-3.5mm2 THHN WIRE STRANDED, +
							20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVI
13	CONVENIENCE OU'LET (10X180VA)	180	400/230	1800	,		20 30 17 10	2-3.5mm2 THHN WIRE STRANDED, +
	Control of the Contro	120	400/230	1260			20 50 1P 10	1-3.5mm2 TW (6) WIRE STRANDED, 20mmDIA PV
14	CONVENIENCE OUTLET (7X180VA)	120	1400,230	1200	1	1	10001110	2-5.5mm2 THHN WIRE STRANDED, +
		400	0 400/230		400	0	30 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
15	PROVISION FOR BILLBOARD	400	U 400/230	-	400	-		2-3.Smm2 THHN WIRE STRANDED, +
	CONVENIENCE OUTLET (4X180VA)	72	0 400/230		725	0	20 50 1P 10	1-3.5mm2 TW (6) WIRE STRANDED, 20mmDIA PV
16	CONVENIENCE GOTLET (4X180VA)	12	3 4007 £ 30		1			2-3.5mm2 THHN WIRE STRANDED, +
	CONVENIENCE OUTLET (BX180VA)	244	0 400/230		1	1440	20 SO 1P 10	1-3.5mm2 TW (6) WIRE STRANDED, 20mmDIA PV
- 44	COURTNEADER COLLEGE CONTROL		1000 200	10000	1			2-3.5mm2 THHN WIRE STRANDED, +
40	CONVENIENCE OUTLET (4X180VA)	72	0 400/230	)		720	20 50 1P 10	1-3.5mm2 TW (6) WIRE STRANDED, 20mmDIA PV
- 10	CONVENIENCE CONTEN (4K180VA)			1				4-14mm2 THHN WIRE STRANDED, +
	TOTAL	2435	7	850	1 850	0 7356	60 100 3P 14	1-8mm2 TW (G) WIRE STRANDED, 32mmDIA RSC

CONNECTED LOAD = 8501 VA X 3 = 25503 VA IF = 25503 VA / (400 X 1.732) = 36.81 A IDF = 100% DF (36.81) = 36.81 A ICE = 1.15(36.81) = 43.83 USE: 60AT, 100AF, 3P, 400V, 14kAIC

IF = 1.25(36.81) = 46.01 A

USE: 4-14mm2 THHN WIRE + 1-8.0mm2 TW (G) WIRE in 32mmdia RSC (46.01/70A)

#### SCHEDULE OF LOAD

are 07 4	SURFACE MOUNTED, NEMA 1 ENCLOSU				VA PER PHA	SE	BRANCH CKT. BREAKER	SIZE OF WIRE AND CONDUIT
KT NO.	LOAD DESCRIPTION	VA VI	DLTS	AN	BN	CN	AT AF POLE KAIC	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
		-						2-3.5mm2 THHN WIRE STRANDED, +
11	IGHTINGS	668	400/230	568	1		15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
	ign may	7.0						2-3.5mm2 THHN WIRE STRANDED, +
21	IGHTINGS	668	400/230	668	1		15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
								2-3.5mm2 THIN WIRE STRANDED, +
31	UGHTINGS	668	400/230		668	l .	15 SO 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
			10		100	1		2-3.5mm2 THHN WIRE STRANDED, +
41	UGHTINGS	668	400/230		668	1	15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
		-500						2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
51	JGHTINGS.	668	400/230		-	1	668 15 50 1P 10	
		20.00	2002000		1		403 47 70 40 40	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
61	LIGHTINGS	407	400/230		-	-	407 15 50 19 10	2-3.5mm2 TW (G) WIRE STRANDED, 20MMDIA PVC 2-3.5mm2 THHN WIRE STRANDED. +
		1900	20202	180			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
70	CONVENIENCE OUTLET (5X180VA)	900	400/230	90	2	+-	20 50 17 10	2-3.5mm2 THIN WIRE STRANDED, +
		1		100			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
81	CONVENIENCE OUTLET (5X180VA)	900	400/230	90	9	1	20 30 1F 10	2-3.5mm2 THHN WIRE STRANDED, +
		- 1000			142		15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
91	LIGHTINGS	1425	400/230		142		13 30 IF 10	2-3 5mm2 THHN WIRE STRANDED. +
					90		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
10	CONVENIENCE OUTLETS (5X180VA)	900	400/230		30		10.00 11 10	2-3 5mm2 THHN WIRE STRANDED, +
		1000	400/230			1	260 20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, ZOmmDIA PVC
11	CONVENIENCE OUTLET (7X180VA)	1260	400Y23U		+			2-3.5mm2 THHN WIRE STRANDED, +
0050		1000	400/230			1	900 20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
12	CONVENIENCE OUTLET (SX180VA)	1000	400/230		1			2-3.5mm2 THIN WIRE STRANDED, +
-		1000	400/230	100	0		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
13	FLOOR OUTLET	1000	WAS LIKE	100				2-3.5mm2 THHN WIRE STRANDED, +
	FLOOR OUTLET	1000	400/230	100	0		20 SO 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PV
14	PLOCK COTILES	1000		THE RESERVE				2-3.5mm2 THHN WIRE STRANDED, +
15	FLOOR OUTLET	1000	400/230		100	0	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PW
15	TAON COTTES	-						2-3.5mm2 THHN WIRE STRANDED, +
- 15	SPECIAL PURPOSE OUTLET	1000	100/230		100	0	20.50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PM
	A COUNTY OF STREET							2-3.5mm2 THHN WIRE STRANDED, +
17	SPECIAL PURPOSE OUTLET	1000	400/230			1	1000 20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
4.		100						2-5.5mm2 THHN WIRE STRANDED, +
18	SPECIAL PURPOSE OUTLET	1000	400/230		1	1 1	9000 40 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA PVC
- 10								4-14mm2 THHN WIRE STRANDED, +
	TOTAL	16132		0 5136 566	1 7235 50	00 3P 1	4	1-8mm2 TW (G) WIRE STRANDED, 32mmDIA RSC

CONNECTED LOAD = 7235 VA X 3 = 21705VA IF = 21705 VA / (400 X 1.732) = 31.33 A IDF = 100% DF (31.33) = 31.33 A IDF = 1.15(31.33) = 36.03A USE : 50AT, 100AF, 3P, 400V, 14RAIC

(F = 1.25(31.33) = 36.03 A

USE : 4-8.0mm2 THHN WIRE + 1-8.0mm2 TW (G) WIRE In 25mmdla RSC (36.96/60A)

#### SCHEDULE OF LOAD

		and the same	1	A PER PHA	SE	BRANCH CKT, BREAKER	SIZE OF WIRE AND CONDUIT
KTNO.	LOAD DESCRIPTION	VA VOLTS	AN	BN	CN	AT AF POLE KAIC	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA F
		0.7				7.45.5	2-3.5mm2 THHN WIRE STRANDED, +
1 110	SHTINGS	1278 400/230	1278	and the second		15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA F
							2-3.5mm2 THHN WIRE STRANDED, +
2110	SHTINGS	1021 400/230	1021		-	15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
	Name and American						2-3.5mm2 THHN WIRE STRANDED, +
3 110	SHTINGS	964 400/230		964	-	15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
-		578 400/230		578		15 50 1P 10	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
4110	SHTINGS	5/8#00/230	-	5/8	-	15 30 1P 10	2-3.5mm2 THHN WIRE STRANDED. +
CIN	SHTINGS	1519 400/230			15	19 15 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
SIR	ontings	1319 400/230	10000		43	19 15 30 17 10	2-3.5mm2 THHN WIRE STRANDED, +
6 CONVENIENCE OUTLET (7X180VA)		1260 400/230			1260 20 50 1P 10		1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
000	MATERICE COLLET (18280AA)	1100 1007130	-			200000	2-3.5mm2 THHN WIRE STRANDED, +
7.00	ONVENIENCE OUTLET (8X180VA)	1440 400/230	1440			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
,	and the same same same same same same same sam	-	2.10				2-3.5mm2 THHN WIRE STRANDED, +
800	ONVENIENCE OUTLET (9X180VA)	1620 400/230	1620			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
-170							2-3.5mm2 THHN WIRE STRANDED, +
900	ONVENIENCE OUTLET (7X180VA)	1260 400/230		1260		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
6.7		1000					2-3.5mm2 THHN WIRE STRANDED, +
10 00	INVENIENCE OUTLETS (3X180VA)	540 400/230		540	1	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
							2+3.5mm2 THHN WIRE STRANDED, +
11 00	ONVENIENCE OUTLET (7X180VA)	1260 400/230			126	50 20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
		CONTRACTOR OF THE CO					2-3.5mm2 THHN WIRE STRANDED, +
12 00	ONVENIENCE OUTLET (7X180VA)	1260 400/230	-		126	50 20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
200	NAME OF TAXABLE PARTY.		1 2222				2-3.5mm2 THHN WIRE STRANDED, +
13 SP	ECIAL PURPOSE OUTLET	1500 400/230	1500		-	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
		1500 400/230	1500			20 50 1P 10	2-3.5mm2 THHN WIRE STRANDED, + 1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
14 SP	ECIAL PURPOSE OUTLET	1500 400/230	1500	-	-	20 50 10 10	2-3.5mm2 THHN WIRE STRANDED, +
15.14	SHTINGS	640 400/230		540		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
72 m	antinga	040,400,230	1000	UNI		20 30 17 20	2-5.5mm2 THHN WIRE STRANDED, +
15 PR	ROVISION FOR BILLBOARD	4000 400/230		4000		50 S0 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
1011	TOTOION TOR DILLOOPING	4000 100/250		-1000	Polle		2-3.5mm2 THHN WIRE STRANDED, +
17 00	ONVENIENCE OUTLETS (7X180VA)	1260 400/230			126	50 20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
				1000	FIRE		2+3.5mm2 THHN WIRE STFANDED, +
18 00	ONVENIENCE OUTLETS (6X180VA)	1080 400/230			108	80 20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
						Walter and the second	2-3.5mm2 THHN WIRE STRANDED, +
19 58	PECIAL PURPOSE OUTLET	1500 400/230	1500			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
							2-3.5mm2 THHN WIRE STRANDED, +
20 SP	PARE	500 400/230	500			20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
-				10000		*********	2-3.5mm2 THHN WIRE STFANDED, +
21 00	ONVENIENCE OUTLETS (8X180VA)	1080 400/230	1	1080	-	20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
and the last	CONTROL STATE OF THE STATE OF T	200 400 500			-	20 50 10 10	2-3.5mm2 THHN WIRE STRANDED, +
22 00	ONVENIENCE OUTLETS (5X180VA)	900 400/230		900		20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA 2-3.5mm2 THHN WIRE STRANDED, +
22.00	ONVENIENCE OUTLETS (8X180VA)	1080 400/230			100	30 20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA
2300	DIEA FINITIACE ON ITE13 (BYTORAY)	1000 400/230		-	200	N EU JU AT AU	2-3.5mm2 THHN WIRE STRANDED, +
24 00	ONVENIENCE OUTLETS (8X180VA)	1080 400/230			100	80 20 50 1P 10	1-3.5mm2 TW (G) WIRE STRANDED, 20mmDIA P
2.70	The second participant	1000			201		4-14mm2 THHN WIRE STRANDED, +
	OTAL	30120	10250	9962 9799	60 100 2	0.14	1-8mm2 TW (G) WIRE STRANDED, 32mmDIA RS

CONNECTED LOAD = 10359 VA X 3 = 30966 VA IF = 30966 VA / {400 X 1.732} = 44.7 A ID# = 100% DF [44.7) = 44.7 A ICB = 1.13[4.7] = 51.98 USE : 60AT, 100AF, 3P, 400V, 14kAIC

IF = 1.25(44.7) = 56.07 A

USE : 4-14mm2 THHN WIRE + 1-8.0mm2 TW (G) WIRE in 32mmdla RSC (56.07/70A)