LOADING SCHEDULE AND COMPUTATION

PANEL "LP2A"

MAIN : 100AT 100AF 3P
3Ø 4-WIRE 230V

FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	PHASE LOADING				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØCA	ØBC	3Ø	TRIP	FRAME	POLE	WIRE	CONDUIT
1	LIGHTINGS	6.50	6.50				30	50	2	2#3.5mm2 THHN	20mmØ PVC
2	LIGHTINGS	6.20	6.20				30	50	2	2#3.5mm2 THHN	20mmØ PVC
3	LIGHTINGS	6.50		6.50			30	50	2	2#3.5mm2 THHN	20mmØ PVC
4	CONVENIENCE OUTLET	7.83		7.83			30	50	2	3#3.5mm2 THHN	20mmØ PVC
5	CONVENIENCE OUTLET	10.17			10.17		30	50	2	3#3.5mm2 THHN	20mmØ PVC
6	CONVENIENCE OUTLET	9.39			9.39		30	50	2	3#3.5mm2 THHN	20mmØ PVC
7	SPARE	—	—				30	50	2	3#5.5mm2 THHN	20mmØ PVC
8	ACCU -22	8.00	8.00				30	50	2	3#3.5mm2 THHN	20mmØ PVC
9	ACCU -23	8.00		8.00			20	50	2	3#3.5mm2 THHN	20mmØ PVC
10	SPARE	—		—			20	50	2	3#3.5mm2 THHN	20mmØ PVC
11	SPARE	—			—		30	50	2	3#5.5mm2 THHN	20mmØ PVC
12	ACCU -24	12.00			12.00		30	50	2	3#5.5mm2 THHN	20mmØ PVC
	TOTAL		20.70	22.33	31.56						

ILPA2 = 31.56 (1.732) + 0.25 (12)
= 57.66 AMPERES

USE : 3# 14mm2 THHN
1# 8.0mm2 THHN
IN 32mmØ PVC

PANEL "DP"

MAIN : 2-400AT 400AF 3P
3Ø 4-WIRE 230V

FEEDER NO.	LOAD DESCRIPTION	AMP. PER FEEDER	PHASE LOADING				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØCA	ØBC	3Ø	TRIP	FRAME	POLE	WIRE	CONDUIT
1	PANEL "PP2"	117.60					150	225	3	3#50mm2 THHN 1#14mm2 THHN	50mmØ PVC
2	PANEL "PP3"	74.71					150	225	3	3#50mm2 THHN 1#14mm2 THHN	50mmØ PVC
3	PANEL "PP4"	86.14					150	225	3	3#50mm2 THHN 1#14mm2 THHN	50mmØ PVC
4	SPARE	—					150	225	3	—	—
5	ELEVATOR (PROVISION)	42.00					100	100	3	3#14mm2 THHN 1#8.0mm2 THHN	32mmØ PVC
6	PANEL "LP2"	57.66					100	100	3	3#22mm2 THHN 1#8.0mm2 THHN	40mmØ PVC
7	SPARE	—					70	100	3	—	—
8	PANEL "LP1"	43.74					70	100	3	3#14mm2 THHN 1#8.0mm2 THHN	32mmØ PVC
	TOTAL	421.85									

IDP = [421.85 + 0.25 (42)] 0.80 D.F
= 345.88 AMPERES

USE : 3# 250mm2 THHN
1# 30mm2 THHN
IN 90mmØ IMC

GENERAL NOTES

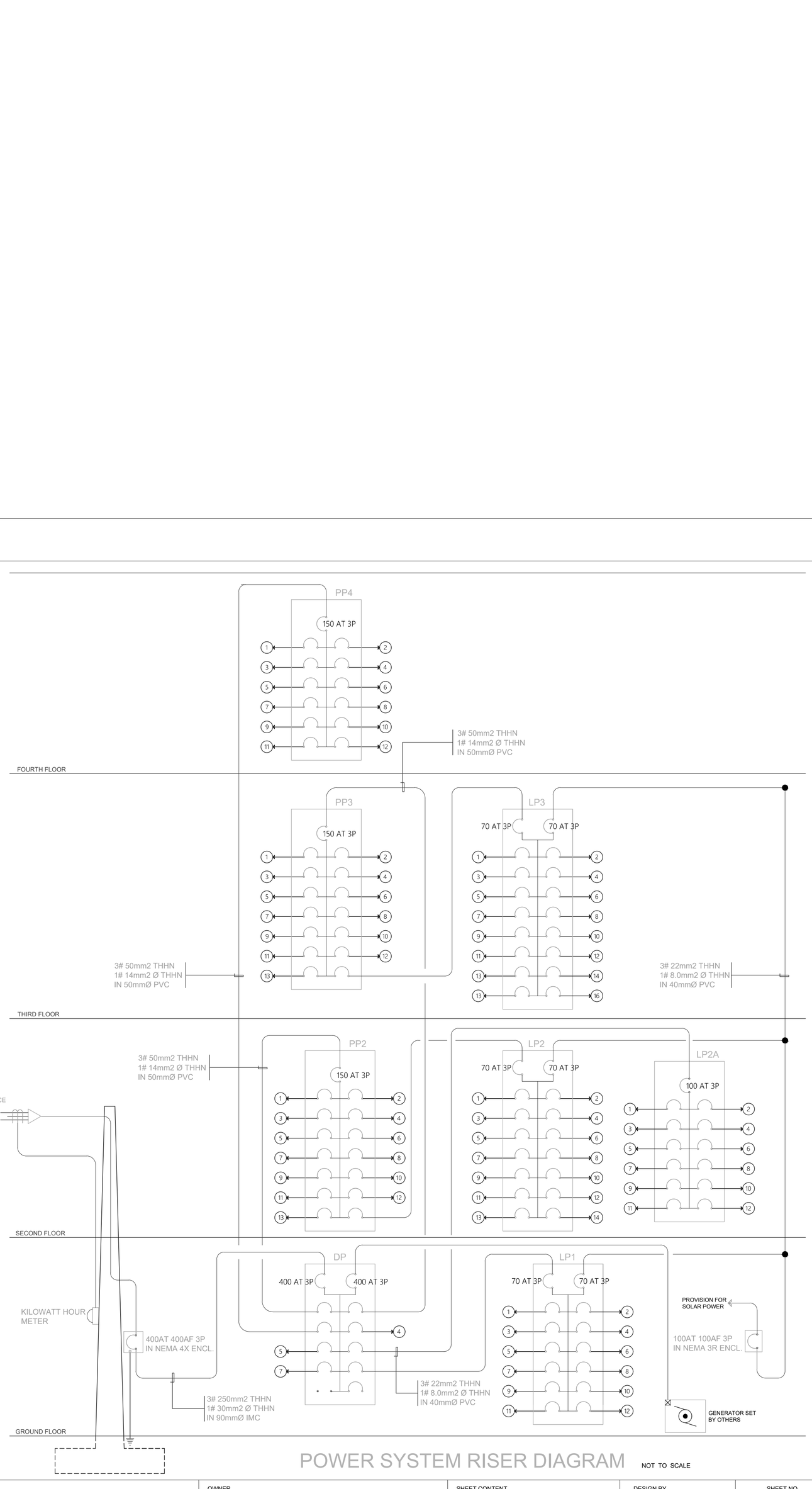
1. THE ELECTRICAL INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL AND POWER TELEPHONE COMPANIES. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
2. THE ELECTRIC SERVICE VOLTAGE SHALL BE SINGLE PHASE- 2 WIRE + GROUND 230 VOLTS.
3. THE ELECTRICAL INSTALLATION SHALL BE DONE IN IMC CONDUITS AND PVC CONDUITS, FLEXIBLE CONDUITS SHALL BE USED WHERE REQUIRED THE USED OF PVC CONDUITS SHALL BE LIMITED TO 15mm DIA. AND 20mm DIA. SIZE. THE MINIMUM SIZE FOR ALL CONDUITS SHALL BE IN 15mm DIA. ELECTRICAL TRADE SIZE , FOR STEEL CONDUITS PANASONIC AND ALLIED BRANDS OR APPROVED LOCAL EQUIVALENT SHALL BE USED. WHERE NON-METALLIC CONDUITS ARE ALLOWED TO BE USED, PVC CONDUITS SCHEDULE 48, ATLANTA AND EMERALD BRANDS OR APPROVED EQUIVALENT SHALL BE USED.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE FOR POWER SHALL BE 3.5mm2 AND FOR LIGHTING SHALL BE 2.0mm2. THE CONTROL WIRES SHALL BE 2.0mm2. ALL OTHER WIRES SHALL BE AS INDICATED OR AS SPECIFIED ELSEWHERE ON THE PLANS. PHELPS DODGE AND COLUMBIA BRANDS OR EQUIVALENT SHALL BE USED.
5. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY AND ALSO THE ACTUAL LOCATION OF THE TELEPHONE AND CABLE TV SYSTEM SERVICE ENTRANCE FOR CONNECTION TO THE TELEPHONE AND CABLE FACILITIES.
6. ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANEL BOARDS, LIGHTING FIXTURES AND ALL NON CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
7. ALL 20 AMPERE CIRCUIT HOMERUNS TO THE PANEL BOARDS MORE THAN 30 METERS IN LENGTH SHALL BE NO. 3.5mm2 UNLESS OTHERWISE SPECIFIED.
8. ALL FEEDERS AND BRANCH CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE PLANS, BRANCH CIRCUIT HOMERUN WIRES SHALL BE INSTALLED IN INDIVIDUAL HOMERUN CONDUITS.
9. PULLBOX OR PULLBOXES OR MANHOLES OR HANDHOLES SHALL BE PROVIDED EVEN IF NOT INDICATED ON THE PLANS, IF THE FIELD CONDITION IS REQUIRED.
10. THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLOWS

LIGHT SWITCHES	1.40 METER ABOVE FLOOR FINISH
CONVENIENCE OUTLET	0.30 METER ABOVE FLOOR FINISH
VOICE AND DATA TELEPHONE OUTLET	0.30 METER ABOVE FLOOR FINISH
PANEL BOARD AND CABINETS	1.40 METER ABOVE FLOOR FINISH @ CENTER OR AS REQUIRED

ALL MOUNTING HEIGHTS SHALL BE SUBJECT FOR ARCHITECTS APPROVAL PRIOR TO INSTALLATION

LEGEND

DL	LED PINLIGHT 6 WATTS DAYLIGHT
	LED DIRECTIONAL LIGHTS WARM WHITE
	LED SURFACE BOX PINLIGHT 9 WATTS DAYLIGHT
WW	LED DOWNLIGHT 6 WATTS WARM WHITE
WW	LED PINLIGHT 6 WATTS WARM WHITE
DL	LED PINLIGHT 9 WATTS DAYLIGHT
TRI	LED PINLIGHT 9 WATTS TRICOLOR
S	SMOKE DETECTOR
DL	HANGING LED LAMP
	EMERGENCY LIGHT LED
	CEILING FAN
	CCTV CAMERA
	CEILING MOUNTED EXHAUST FAN
	EXIT LIGHT ACRYLIC
	LED STRIP WARM WHITE
	WEATHER PROOF FLUORESCENT
	WALL MOUNT FLOOD LIGHT
	SPLIT TYPE AIR CONDITION



POWER SYSTEM RISER DIAGRAM

NOT TO SCALE

CONTRACTOR	CHECKED BY.	ENGINEER	PROJECT	OWNER	SHEET CONTENT	DESIGN BY.	SHEET NO.
		PROFESSIONAL ELECTRICAL ENGINEER	FASTEL OFFICE BUILDING		AS SHOWN	CADD BY. jstamayo	E-6
		PRC. NO. / PTR. NO.				DATE NOV. 2024	
		TIN. NO. / ISSUED ON	LOCATION 214 P. SANTOS ST., MALIBAY, PASAY CITY	ADDRESS		APPROVED BY.	