

LOAD SCHEDULE AND COMPUTATION

PANEL "PP"						MAIN : 150AT 2P 230V 1Ø 3-WIRE 230V		
FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	VOLTS	CIRCUIT BREAKER			HOMERUN	
				TRIP	FRAME	POLE	WIRE	CONDUIT
1	PANEL LP	59.29	230	70	100	2	2#14mm2 THHN	25mmØ PVC
2	BLOWER	6.52	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
3	ACCU MAIN DINING	13.00	230	30	50	2	3#3.5mm2 THHN	20mmØ PVC
4	ACCU MAIN DINING	13.00	230	30	50	2	3#3.5mm2 THHN	20mmØ PVC
5	BLOWER	6.52	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
6	CONVENIENCE OUTLET	3.13	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
7	ACU OFFICE	10.00	230	30	50	2	3#3.5mm2 THHN	20mmØ PVC
8	ACU VIP 3	10.00	230	30	50	2	3#3.5mm2 THHN	20mmØ PVC
9	ACU VIP 2	10.00	230	30	50	2	3#3.5mm2 THHN	20mmØ PVC
10	ACU VIP 1	13.00	230	30	50	2	3#3.5mm2 THHN	20mmØ PVC
	TOTAL	144.46						
IPP = $\left[144.46 + 0.25 (13) \right] 0.80 \text{ D.F}$						USE : 2# 50mm2 THHN WIRE 1# 50mm2 Ø PVC (EXISTING)		
= 118.17 AMPERES								

LOAD SCHEDULE AND COMPUTATION

PANEL "LP"						MAIN : 70AT 2P 230V 1Ø 3-WIRE 230V		
FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	VOLTS	CIRCUIT BREAKER			HOMERUN	
				TRIP	FRAME	POLE	WIRE	CONDUIT
1	LIGHTINGS	5.44	230	20	50	2	2#3.5mm2 THHN	20mmØ PVC
2	LIGHTINGS	3.26	230	20	50	2	2#3.5mm2 THHN	20mmØ PVC
3	LIGHTINGS	4.56	230	20	50	2	2#3.5mm2 THHN	20mmØ PVC
4	LIGHTINGS	2.17	230	20	50	2	2#3.5mm2 THHN	20mmØ PVC
5	EMERGENCY LIGHTS	6.26	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
6	CONVENIENCE OUTLET	6.26	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
7	CONVENIENCE OUTLET	7.82	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
8	CONVENIENCE OUTLET	7.82	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
9	UPRIGHT FREEZER	3.50	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
10	UPRIGHT FREEZER	3.50	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
11	REFRIGERATOR	4.35	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
12	ICE MAKER	4.35	230	20	50	2	3#3.5mm2 THHN	20mmØ PVC
	TOTAL	59.29						
ILP = 59.29 AMPERES						USE : 2# 14mm2 THHN 1# 80mm2 Ø THHN IN 25mmØ PVC		

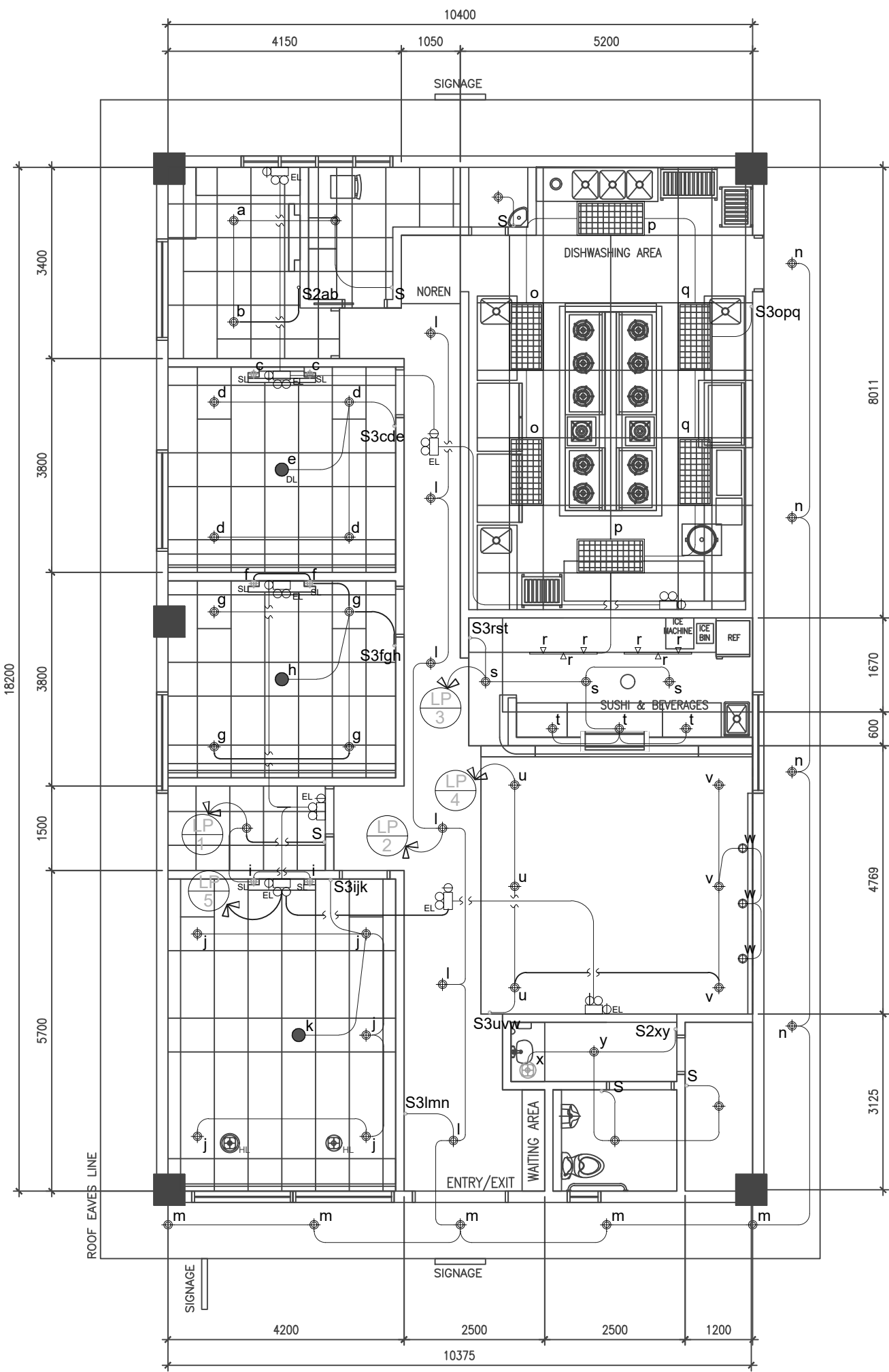
GENERAL NOTES

- 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.
- THE ELECTRIC SERVICE VOLTAGE SHALL BE SINGLE PHASE- 2 WIRE + GROUND 230 VOLTS.
- 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.
- 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.
- 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.
- 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.
- ALL 20 AMPERE CIRCUIT HOMERUNS TO THE PANEL BOARDS MORE THAN 30 METERS IN LENGTH SHALL BE NO. 3.5mm2 UNLESS OTHERWISE SPECIFIED.
- ALL FEEDERS AND BRANCH CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE PLANS. BRANCH CIRCUIT HOMERUN WIRES SHALL BE INSTALLED IN INDIVIDUAL HOMERUN CONDUITS.
- PULLBOX OR PULLBOXES OR MAN-HOLES OR HANDHOLES SHALL BE PROVIDED EVEN IF NOT INDICATED ON THE PLANS, IF THE FIELD CONDITION IS REQUIRED.
- THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLOWS

LIGHT SWITCHES
CONVENIENCE OUTLET
VOICE AND DATA TELEPHONE OUTLET
PANEL BOARD AND CABINETS

1.40 METER ABOVE FLOOR FINISH
0.30 METER ABOVE FLOOR FINISH
0.30 METER ABOVE FLOOR FINISH
1.40 METER ABOVE FLOOR FINISH @ CENTER OR AS REQUIRED

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



LIGHTING SYSTEM LAYOUT SCALE 1 : 100 MTS.

