

GENERAL NOTES :

- ALL ELECTRICAL WORKS SHALL CONFORM TO THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, TO THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED AND THE REQUIREMENTS OF THE UTILITY COMPANIES CONCERNED.
 - THE WIRING INSTALLATION SHALL BE USE FLEXIBLE PVC CORRUGATED CONDUIT PIPE FOR LIGHTING & POWER LAYOUT AND FOR MAIN SERVICE ENTRANCE SHALL BE USE INTERMEDIATE CONDUIT(IMC) GALVANIZED.
 - MINIMUM SIZE OF WIRES AND CONDUITS SHALL BE 3.5 sq. mm. AND 16 mm NOMINAL DIAMETER, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 - PROVIDE NECESSARY PULL BOXES WIRE GUTTERS, SQUARE BOXES WHENEVER NECESSARY OR REQUIRED FOR THE ROUGHING IN ELECTRICAL WORKS.
 - TYPE OF SERVICE POWER SHALL BE 230 V, 1ϕ 60 Hz
 - ALL LIGHTING FIXTURES WILL BE LED FOR ENERGY EFFICIENT (CENTER LAMP, PINLIGHT&DOWNLIGHT, WALL LAMP) SHALL BE SUPPLIED BY THE OWNER, BUT TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
 - INSTALLATION OF (CT) ELECTRIC COOKING EQUIPMENT SHALL BE INSTALL 36-48 INCHES FROM THE FLOOR.
 - INSTALLATION OF SWITCH SHALL BE 48-52 INCHES FROM THE FLOOR.
 - INSTALLATION OF OUTLET SHALL BE 12-18 INCHES FROM THE FLOOR.
 - INSTALLATION OF OUTLET WATER HEATER IN T&B SHALL BE AT LEAST 2.4 meter FROM THE FLOOR.
 - ALL MATERIALS AND EQUIPMENTS TO BE INSTALLED SHALL BE BRAND NEW AND OF APPROVED TYPE AS TO LOCATION AND PURPOSE INTENDED.
 - INSTALLATION OF SERVICE DROP SHALL BE 8 FOOT OR 2.5 METER FROM THE GROUND.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE TAGGING AT THE PANEL BOARD FOR POSSIBLE EXACT LOCATION OF THE BRANCH CIRCUIT.
 - PROVIDE GROUNDING SYSTEM WHICH SHALL BE PROPERLY ADEQUATELY
 - THERE SHALL BE ONLY ONE SERVICE DROP ENTERING THE STRUCTURE.
 - ALL OUTDOOR INSTALLATION , SHALL BE WEATHERPROOF TYPE.
 - ALL LIGHTING SWITCHES SHALL BE RATED 10A, 15A., 250V. & AC RATED.
 - PROVIDE OUTLET FOR EMERGENCY LIGHT AT LEAST 1 GANG.
 - ALL RECEPTACLES USE HEREIN SHALL BE 20A 250V. & AC RATED.
 - ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCE MEN.
 - ALL WIRES AND CABLES ARE COLOR - CODED AND LISTED AS FOLLOWS: LINE - 1 (BLACK), LINE - 2 (RED), GROUND - (GREEN)
- DESCRIPTIONS:
 LO - LIGHTING OUTLET
 CO - CONVENIENCE OUTLET
 ACU - AIR CONDITION UNIT
 WH - WATER HEATER
 CT - ELECTRIC COOKING EQUIPMENT
 M - SERVICE METER

SYMBOL DESCRIPTION

	CONVENIENCE OUTLET, 2 POLE
	ELECTRICAL COOKING EQUIPMENT
	AIR CONDITIONING OUTLET
	WATER HEATER OUTLET
	WASHING & DRYER OUTLET
	PIN LIGHT
	DOWN LIGHT
	WALL LIGHT
	EMERGENCY LIGHT OUTLET
	1 GANG SWITCH 1 POLE
	3 WAY SWITCH 1 POLE
	3 GANG SWITCH 3 POLE
	CEILING FAN FOUR BLADE
	BRANCH CIRCUIT HOMERUN
	PANEL BOARD
	ENCLOSE CIRCUIT BREAKER
	SERVICE METER
	JUNCTION BOX
	BREAKER
	FLOOR PLAN LINE
	LIGHTING B.C. 1
	POWER B.C. 2
	CT B.C. 3
	W&D B.C. 4
	ACU B.C. 5
	WATER HEATER B.C. 6

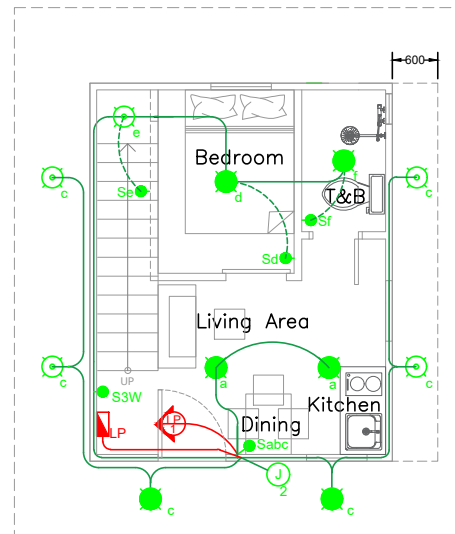
LEGENDS

LOAD SCHEDULE											
PANEL: LP					SYSTEM: 230 VAC 1 ϕ 60HZ						
MAIN CIRCUIT BREAKER: 70AT/100AF NEMA-1 ENCLOSURE					MOUNTING: SURFACE						
FEEDER CABLE: 2 - 8.0mm ² THW and 1 - 5.5mm ² TW(GROUND)					ECB ENCLOSURE: NEMA-3R						
RACEWAY: 3/4 inch or 21 mm dia. IMC					FED FROM: UTILITY						
CKT.	NO.	CO	LO	HP	LOAD DESCRIPTION	VA	VOLT	AMPERE	C.B RATING	CABLE(mm ²)	CONDUIT
									AT	AF	PVC(mm)
	1		15		LIGHTING FIXTURES	176	230	0.81	15	60	1 ϕ 2-3.5 1-3.5 16
	2	6			SMALL APPLIANCES	1080	230	6.52	20	60	1 ϕ 2-3.5 1-3.5 16
	3				ELECTRIC COOKING EQUIPMENT	4500	230	19.57	30	60	1 ϕ 2-3.5 1-3.5 16
	4				WASHING & DRYER	1500	230	17.39	20	60	1 ϕ 2-3.5 1-3.5 16
	5			0.75HP	SURFACE MOUNT ACU1	1587	230	6.9	20	60	1 ϕ 2-3.5 1-3.5 16
	6				WATER HEATER	2400	230	10.43	20	60	1 ϕ 2-3.5 1-3.5 16
	7			1.5HP	SURFACE MOUNT ACU2	2300	230	10	20	60	1 ϕ 2-3.5 1-3.5 16
	8				SPARE	0	230		20	60	1 ϕ 2-3.5 1-3.5 16
TOTAL CONNECTED LOAD =						11956VA					
LOAD COMPUTATION:											
CABLE: TOTAL 1 ϕ CURRENT @ 80% DF = [(11956/230) + 25%(10)] X 80% = 43.59A											
TOTAL 1 ϕ CURRENT = 50.39A											
PROTECTION: TOTAL 1 ϕ CURRENT @ 80% DF = [(11956/230) + 150%(10)] X 80% = 53.59A											
TATAL 1 ϕ CURRENT = 60.39A											

LOAD SCHEDULE



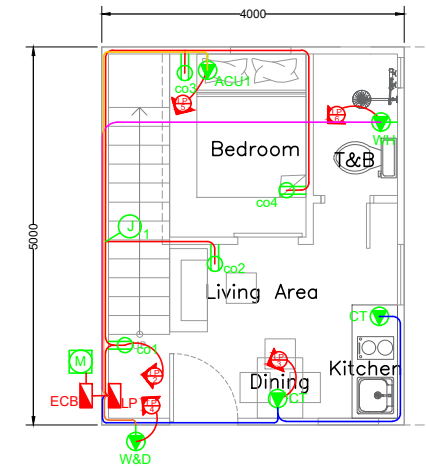
PERSPECTIVE VIEW
SCALE: 9-12, 1:100MTS



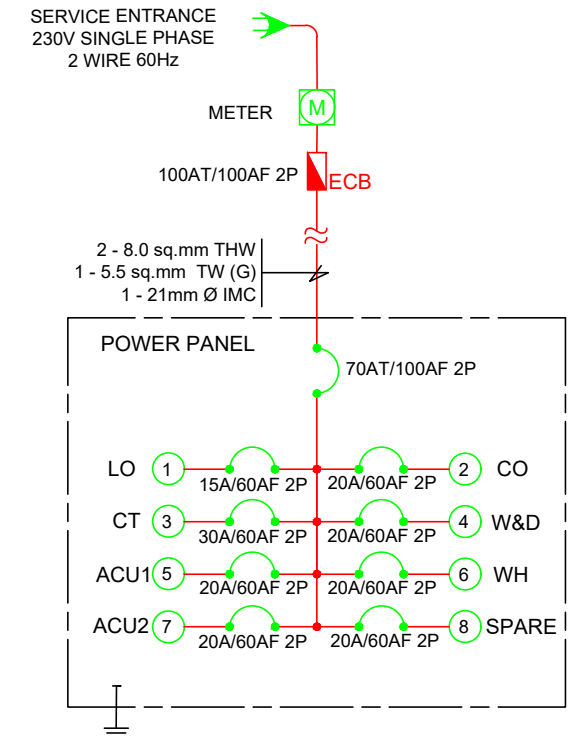
LIGHTING LAYOUT
SCALE: 5-13, 1:100MTS

TYPE	LIGHT COOL WHITE	DOWN LIGHT WARM WHITE	WALL LIGHT WARM WHITE	EMERGENCY LIGHT	CEILING FAN	TOTAL
BC1	9VA	9VA	9VA	5VA	50VA	
QTY	8	6	0	0	0	14
	72VA	54VA	0VA	0VA	50VA	126VA

LIGHTING LOAD



POWER & SERVICE LAYOUT
SCALE: 2-13, 1:100MTS



RISER DIAGRAM
SCALE: 10-13, 1:100MTS

DESIGNER:	PEE:	PROJECT TITLE:	APPROVED BY:	REVISIONS	SHEET CONTENTS:	SHEET NO.
		PROPOSED 1 STOREY RESIDENTIAL W/ LOFT (TYPE A MODEL HOUSE)		DRAWN BY:	LEGENDS & SYMBOLS/ LOAD SCHEDULE/ SOLAR LAYOUT LIGHTING LAYOUT/ POWER LAYOUT/ SOLAR LAYOUT	
PRC:	VALID:	LOCATION :	OWNER:	DATE:		
PTR:	DATE:			REVISION:		PAGE 1 OF 2