

ELECTRICAL LOAD SCHEDULE						
PANEL BOARD (PB)						
CKT No.	LOAD DESCRIPTION	VA	VOLTS	AMP	CB RATING	CONDUIT SIZE MM Ø RSC
1	CEILING OUTLET	800	230	3.478	20AT. 2P	2-3.5 MM² THHN AND 1-3.5 MM² (G)
2	CEILING OUTLET	800	230	3.478	20AT. 2P	2-3.5 MM² THHN AND 1-3.5 MM² (G)
3	CEILING OUTLET	900	230	3.913	20AT. 2P	2-3.5 MM² THHN AND 1-3.5 MM² (G)
4	CEILING OUTLET	1200	230	5.217	20AT. 2P	2-3.5 MM² THHN AND 1-3.5 MM² (G)
5	CEILING OUTLET	1300	230	5.652	20AT. 2P	2-3.5 MM² THHN AND 1-3.5 MM² (G)
6	CONVENIENCE OUTLET	1260	230	5.478	30AT. 2P	2-5.5 MM² THHN AND 1-3.5 MM² (G)
7	CONVENIENCE OUTLET	2340	230	10.173	30AT. 2P	2-5.5 MM² THHN AND 1-3.5 MM² (G)
8	DEHYDRATOR	1500	230	6.521	30AT. 2P	2-5.5 MM² THHN AND 1-3.5 MM² (G)
9	PEELING MACHINE	1500	230	6.521	30AT. 2P	2-5.5 MM² THHN AND 1-3.5 MM² (G)
10	MIXING MACHINE	1500	230	6.521	30AT. 2P	2-5.5 MM² THHN AND 1-3.5 MM² (G)
11	ACU	1500	230	6.521	30AT. 2P	2-5.5 MM² THHN AND 1-3.5 MM² (G)
12	ACU	1500	230	6.521	30AT. 2P	2-5.5 MM² THHN AND 1-3.5 MM² (G)
13	WATER PUMP	1500	230	6.521	30AT. 2P	2-5.5 MM² THHN AND 1-3.5 MM² (G)
14	SPARE	1500	230	6.521	30AT. 2P	2-5.5 MM² THHN AND 1-3.5 MM² (G)
TOTAL		19100		83.04		

COMPUTATION FOR FEEDER CONDUCTORS OF PANEL BOARD:

$I_f = 83.04$ AMPERES

THEREFORE: USE 30 MM² THHN Cu & 1 - 8.0 MM² (G) Cu IN 32 MM Ø RSC PIPE

MAIN PROTECTION = 100AT, 1P, 230V IN NEMA-1 ENCLOSURE

NOTES

ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH ALL THE PROVISIONS OF THE PHILIPPINE ELECTRICAL CODE, PART I, AND BY ALL THE REGULATIONS OF THE LOCAL AUTHORITY AND UTILITY COMPANY, WHICH ARE HEREBY MADE PART OF THESE SPECIFICATIONS.

ALL MATERIALS SHALL BE NEW AND SHALL CONFORM WITH THE STANDARDS OF THE UNDERWRITER'S LABORATORY OR TO THE BUREAU OF PRODUCT STANDARDS.

ALL MATERIALS WHICH NOT SPECIFIED SHALL BE THE BEST OF THEIR RESPECTIVE KIND.

THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST AND THROUGH MANNER UNDER THE DIRECTION OF AND TO THE SATISFACTION OF THE OWNER OR THE SUPERVISING CIVIL ENGINEER / ARCHITECT OR THE IN-CHARGED ELECTRICAL ENGINEER.

ALL WIRES UNLESS NOTED IN THE DRAWINGS OR THESE SPECIFICATIONS SHALL BE INSTALLED IN CONDUITS.

FLEXIBLE CONDUITS SHALL HAVE EXCELLENT RESISTANCE TO VIBRATION. FLEXIBLE CONDUIT SHALL BE MANUFACTURED BY MOLDEX OR CROWN ASIA.

PVC CONDUITS SHALL BE RIGID NONMETALLIC CONDUIT, SCHEDULE 40 AND SHALL ALSO BE AS MANUFACTURED BY MOLDEX OR CROWN ASIA.

CONDUIT RUNS SHALL BE INSTALLED IN SUCH MANNER AS NOT TO WEAKEN OR INTERFERE WITH THE STRUCTURE OF THE BUILDING. NO HORIZONTAL RUNS OR EMBEDDED CONDUITS OR TUBING SHALL BE PERMITTED IN SOLID WALL AND PARTITIONS.

ALL CONDUIT COUPLINGS OR JOINTS TO BE INSTALLED UNDERGROUND OR ON CONDUIT RUNS ON AREAS OF THE BUILDING THAT MAY BE SUBJECTED TO WATER OR OTHER LIQUIDS SHALL BE SECURELY LIQUID TIGHT.

THE SWITCHES FOR LIGHTING OUTLETS, CONVENIENCE OUTLETS AND BLANK PLATES SHALL BE AS MANUFACTURED BY NATIONAL OR BY OTHER MANUFACTURER AS WILL BE APPROVED BY THE DESIGNING ELECTRICAL ENGINEER.

MOLDED CASE CIRCUIT BREAKERS SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC AND THE ENCLOSURE SHALL BE ORDERED TO FUJI-HAYA OR OTHER PANEL BOARD MANUFACTURER AS WILL BE APPROVED BY THE DESIGNING ELECTRICAL ENGINEER.

ALL UNDERGROUND CONDUCTORS SHALL BE THW WITH SIZE AS SPECIFIED IN THE DRAWINGS AND SHALL BE AS MANUFACTURED BY PHILFLEX OR BY OTHER MANUFACTURER AS WILL BE APPROVED BY THE DESIGNING ELECTRICAL ENGINEER.

ALL WIRES SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND THERE SHALL NO SPLICE EXCEPT IN JUNCTIONS AND PULLBOXES.

ALL SWITCHES FOR LIGHTING OUTLETS SHALL BE INSTALLED 1.30 M. ABOVE FINISH FLOOR LEVEL.

ALL CONVENIENCE OUTLETS SHALL BE INSTALLED 0.30 M. ABOVE FINISH FLOOR LEVEL EXCEPT OTHERWISE NEEDED TO BE INSTALLED IN SPECIFIC LOCATION FOR ARCHITECTURAL PURPOSES.

ALL COUNTERTOP OUTLETS SHALL BE 0.30 M. ABOVE THE FINISHED SURFACE OF THE COUNTER.

ALL CONVENIENCE OUTLETS NEAR TO HOSE BIBB, FAUCET AND THOSE OUTLETS THAT MAY BE SUBJECTED TO RAIN SHALL BE EQUIPPED WITH GROUND FAULT CIRCUIT INTERRUPTER (GFCI) EVENTHOUGH MAY NOT HAVE BEEN SPECIFIED IN THE DRAWINGS.

ALL PANEL BOARD SHALL BE RADIALLY ACCESSIBLE. NO OTHER CABINETS WILL ENCLOSE THE PANEL BOARD OR OTHER PART OF THE BUILDING SHALL KEEP IT UNACCESSIBLE.

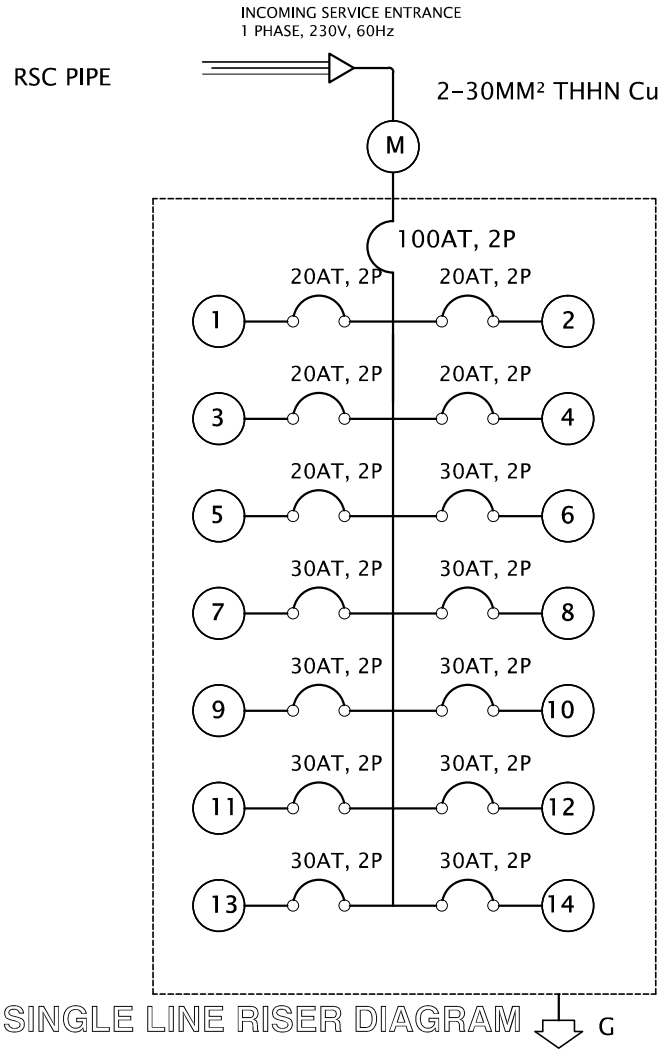
THE PANEL BOARD SHALL BE INSTALLED IN SUCH A WAY THAT THE MAIN CIRCUIT BREAKER SHALL BE 1.80 M. ABOVE FINISH FLOOR LEVEL.

ALL CONVENIENCE OUTLETS, SWITCHES FOR LIGHTING OUTLETS AND PANEL BOARD SHALL BE FLUSH MOUNTED TYPE EXCEPT OTHERWISE DEEMED NECESSARY NOT TO BE FLUSH MOUNTED DURING ACTUAL CONSTRUCTION.

ALL WORKS SHALL BE DONE UNDER SUPERVISION OF AN ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

LEGENDS

- CEILING OUTLET
- Sa 1-GANG SWITCH
- Sbc 2-GANG SWITCH
- LIGHTING CIRCUIT RUN
- PANEL BOARD
- CIRCUIT HOMERUN
- CONVENIENCE OUTLET MOUNTING HT: 0.80 MTS.
- AIRCON OUTLET ACU
- POWER CIRCUIT RUN



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
PHILIPPINE RURAL DEVELOPMENT PROJECT
PROVINCE OF QUEZON



PROJECT TITLE :
**CONSTRUCTION OF
GEN. LUNA PINEAPPLE PROCESSING CENTER**

PROJECT LOCATION : BRGY. NIEVA GEN. LUNA, QUEZON

PREPARED AND SUBMITTED BY :
GERARDO C. GONZALES
ELECTRICAL ENGINEER

REVIEWED BY :
ROMARICO A. ALLAREY
ASSISTANT PROVINCIAL ENGINEER

RECOMMENDING APPROVAL
JOHNNY A. PASATIEMPO
PROVINCIAL ENGINEER

APPROVED :
HON. DANILO E. SUAREZ
GOVERNOR

SHEET CONTENT:
CAD BY:
DATE:
SHEET NO.
E-1-1-15-17
ELECTRICAL