

GENERAL NOTES AND SPECIFICATIONS

1. 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 LOCAL UTILITY COMPANIES.

2. WIRING METHOD SHALL BE AS FOLLOWS:

A. MAIN SERVICE ENTRANCE	RIGID STEEL CONDUIT
B. RACEWAYS FOR POWERS	POLYVINYL CHLORIDE CONDUIT (PVC)
C. AUXILIARY SYSTEM	POLYVINYL CHLORIDE CONDUIT (PVC)
D. RACEWAYS FOR LIGHTING	POLYVINYL CHLORIDE CONDUIT (PVC)

3. MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5 MM² THHN AND 15 MM (1/2") NOMINAL DIAMETER RESPECTIVELY UNLESS OTHERWISE SPECIFIED ON PLANS.

4. FOR EACH SPARE CIRCUIT IN PANEL BOARD, PROVIDE AN EMPTY CONDUIT 20 MM (3/4") DIAMETER TERMINATING TO A COVERED SQUARE BOX.

5. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE FOR BOTH LOCATION AND PURPOSES.

6. ALL METAL FRAMES SHALL BE PROPERLY AND ADEQUATELY GROUNDED, GROUND WIRE SHALL BE PROVIDED ON ALL EQUIPMENT FEEDER.

7. MOUNTING HEIGHTS SHALL BE AS FOLLOWS:

A. LIGHT SWITCHES	1.40 M ABOVE FLOOR FINISH
B. RECEPTACLES	0.30 M ABOVE FLOOR FINISH
C. TELEPHONE OUTLETS	0.30 M. ABOVE FLOOR FINISH
D. CABLE TV OUTLETS	0.30 M. ABOVE FLOOR FINISH
E. PANEL BOARDS	1.40 BOTTOM OF PANEL

8. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKER, EACH PANEL SHALL BE PROVIDED WITHN A TYPEWRITTEN CIRCUIT DIRECTORY.

9. THE JOB SHALL BE EXECUTED IN THE MOST THROUGH PROMPT AND WORKMAN LIKE MANNER, EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICES. THE JOB SHALL BE DONE COMPLETE IN ALL ASPECTS AS REQUIRED IN PLANS AND SPECIFICATION AND READY FOR OPERATION.

10. THE DRAWING AND SPECIFICATIONS ARE INTENDED TO PRESENT A GENERAL LAYOUT AND BROAD OUTLINE AND DESCRIPTION OF THEW PROJECT AND NOT NECESSARY INDICATE DESCRIBED ACTUAL LOCATION LEVELS AND DISTANCES OF EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE ADJUSTMENT AT THE JOBSITE AS LOCATIONS, LEVELS AND DISTANCES ARE GOVERNED BY ACTUAL FIELD CONDITIONS.

11. NO REVISION IN THE DESIGN SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER. ANY SUCH REVISION DONE WITHOUT THE APPROVAL SHALL CAUSE RESPONSIBILITY OF THE DESIGNER TO CEASED AS AWHOLE.

12. ALL WEATHER-EXPOSED INSTALLATIONS SHALL USE WEATHERPROOF TYPE MATERIALS, ESPECIALLY WEATHERPROOF CONVENIENCE OUTLETS, CAST BOXES, JUNCTION BOXES SUBMIT SAMPLE FOR APPROVAL.

13. THERE SHALL BE ONLY ONE SERVICE DROP TO THE PROPOSED BUILDING, SECONDARY SERVICE ENTRANCE SHALL BE 230 VOLTS, SINGLE PHASE.

14. ALL 30 AND 40 AMPERES CIRCUIT HOMERUN TO PANEL BOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5.5 MM² THHN (#10 AWG), UNLESS OTHERWISE SPECIFIED ON PLAN.

15. ALL ELECTRICAL WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER AND / OR

SCHEDULE OF LOADS

CIRCUIT NO.	DESCRIPTION	QTY.	VA PER CIRCUITS	VOLTS	AMP.LOAD	CIRCUIT BREAKER			SIZE OF WIRE ON RUN	PVC PIPE
						AT	AF	P		
1	CON. OUTLET	17	3,400	230	14.78	30	100	2	5.5 mm ² THHN	20mm Ø PVC
2	CON. OUTLET	18	3,600	230	15.65	30	100	2	5.5 mm ² THHN	20mm Ø PVC
3	CON. OUTLET	18	3,600	230	15.65	30	100	2	5.5 mm ² THHN	20mm Ø PVC
4	CON. OUTLET	12	2,400	230	10.40	30	100	2	5.5 mm ² THHN	20mm Ø PVC
5	LIGHTING OUTLET	23	2,300	230	9.96	20	100	2	3.5 mm ² THHN	20mm Ø PVC
6	LIGHTING OUTLET	23	2,300	230	9.96	20	100	2	3.5 mm ² THHN	20mm Ø PVC
7	LIGHTING OUTLET	18	1,800	230	7.84	20	100	2	3.5 mm ² THHN	20mm Ø PVC
8	LIGHTING OUTLET	24	2,400	230	10.40	20	100	2	3.5 mm ² THHN	20mm Ø PVC
9	SPARE	1		230		20	100	2		
10	SPARE	1		230		20	100	2		
11	SPARE	1		230		30	100	2		
12	SPARE	1		230		30	100	2		
TOTAL			21,800		94.64	200AT	200AF	2		

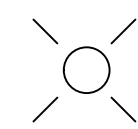
COMPUTATION:

QTY. X 100 (if lighting) = WATTS

$\frac{\text{WATTS}}{\text{VOLTS}} = \text{AMP. LOAD}$

QTY. X 180 (if con. outlet) = WATTS

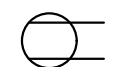
LEGEND



LIGHTING FIXTURES



PIN LIGHT



CONVENIENCE OUTLET



PANEL BOARD

S1

ONE WAY SWITCH

S2

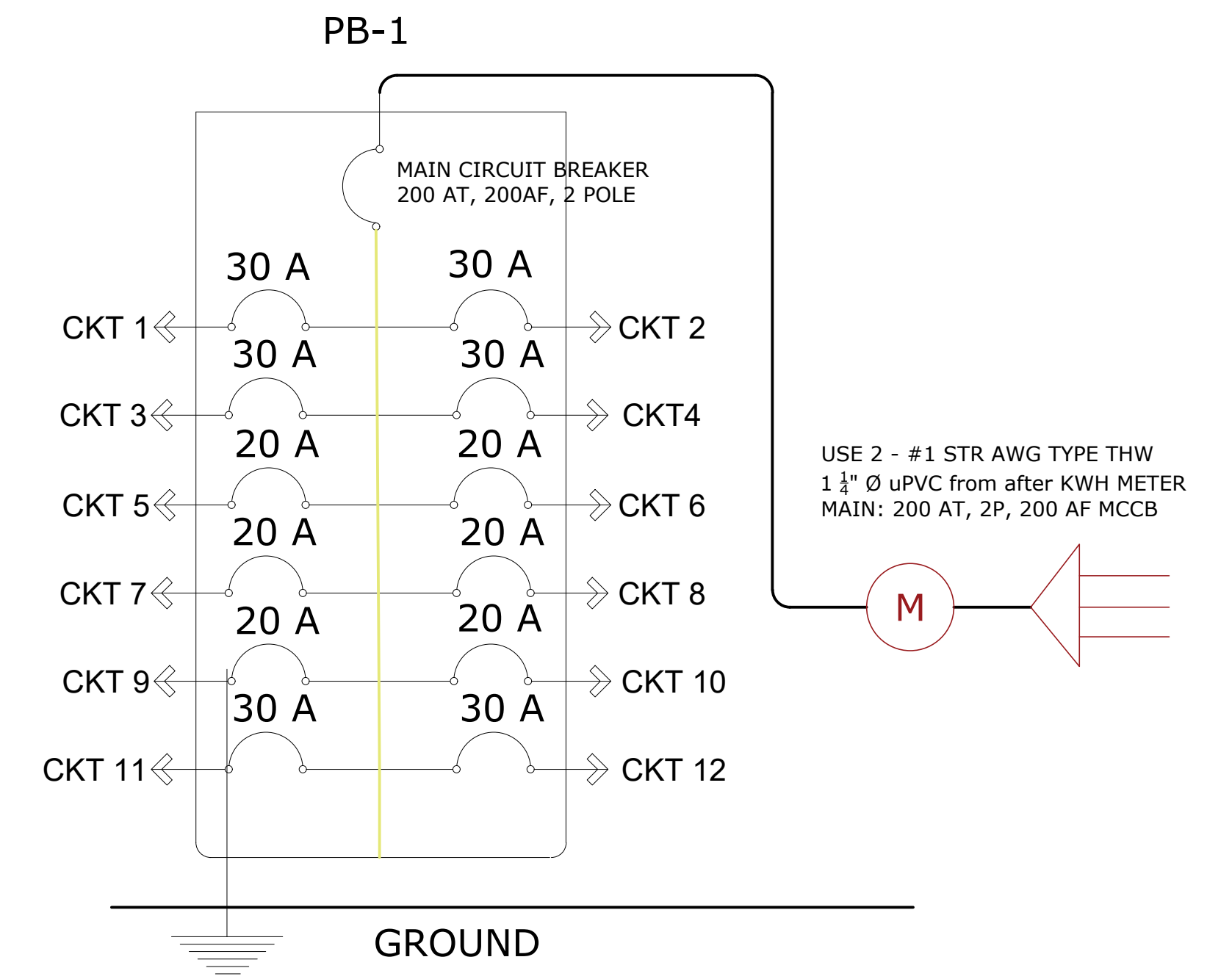
TWO WAY SWITCH

S3

THREE WAY SWITCH

1 SCHEDULE OF LOADS
EL 05 SCALE 1: 100 MTS.

2 RISER DIAGRAM
EL 05 SCALE 1: 100 MTS.



CONTRACTOR



ELECTRICAL ENGINEER:

ENGR. MARIO GUNIO

PRC NO: 0013961
PTR NO: 3097091
TIN NO: 125-744-578
DATE: FEB. 09, 2018
PLACE: BATANGAS CITY

PROJECT TITLE / LOCATION :

PROPOSED CANTEEN AND STUDENT ACTIVITY CENTER

MIMAROPA REGION CAMPUS, ODIONGAN ROMBLON

OWNER :

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF SCIENCE AND TECHNOLOGY
PHILIPPINE SCIENCE HIGH SCHOOL
MIMAROPA REGION CAMPUS

MIMAROPA REGION CAMPUS, ODIONGAN ROMBLON

APPROVED BY:

EDWARD C. ALBARACIN
CAMPUS DIRECTOR

SHEET CONTENT

MEZZANINE LIGHTING LAYOUT

SHEET NO.

EL - 05