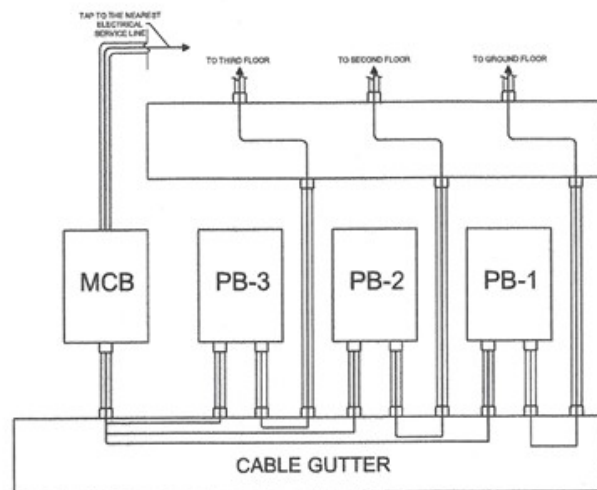




1 CABLE GUTTER DIAGRAM
E-9 SCALE NTS.

LEGEND:

	PINLIGHT		CONVENIENCE OUTLET
	LIGHTING OUTLET SIGNAGE		ACU INDOOR UNIT WITH OUTLET
	LAMP POST		ACU OUTDOOR UNIT
S1	1-GANG SWITCH		HOMERUN TO PANELBOARD
S2	2-GANG SWITCH		PANELBOARD
3WS	1 GANG-3WAY SWITCH		
3WS3	3 GANG-3WAY SWITCH		

GENERAL ELECTRICAL NOTES AND SPECIFICATION:

- ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION THE PHILIPPINE ELECTRICAL CODE, TO THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED AND THE REQUIREMENTS OF LOCAL UTILITY COMPANIES.
- ALL PPS EMBEDDED IN CONCRETE SHALL BE POLYVINYL CHLORIDE (PVC) AND ALL EXPOSED SHALL BE ELECTRICAL METALLIC CONDUIT (EMT).
- MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 2.0 mm THICK AND 20MM (1/2") NOMINAL DIA. RESPECTIVELY, UNLESS OTHERWISE SPECIFIED ON PLANS.
- NO BRANCH CIRCUIT WIRING IN LIGHTING AND POWER SHALL HAVE A LOAD MORE THAN 80% OF ITS RATING.
- LIGHT CONTROL SWITCHES SHALL BE RATED 16 AMPERES, 250 Vol.
- UNLESS OTHERWISE SPECIFIED ALL BOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY, ALTHOUGH SUCH BOXES ARE NOT INDICATED ON PLANS.
- FOR EACH SPARE CIRCUIT IN PANELBOARD, PROVIDE AN EMPTY CONDUIT 20MM (3/4") DIA. TERMINATING TO A COVERED SQUARE BOX.
- ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE BRAND NEW AND OF APPROVED TYPE FOR BOTH LOCATION AND PURPOSES.
- ALL METAL FRAMES SHALL BE PROPERLY AND ADEQUATELY GROUNDED. GROUND WIRE SHALL BE PROVIDED ON ALL EQUIPMENT FEEDER.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS:

a. LIGHT SWITCHES	1.40m A.F.F. AT CENTER
b. RECEPTACLES	0.30m A.F.F.
c. COUNTER TOP OUTLET	1.10m A.F.F.
d. RANGEHOOD OUTLET	1.30m A.F.F.
e. PANELBOARDS	AS REQUIRED UNDERFIELD CONDITION
f. GROUND FAULT INTERRUPTER	1.10m A.F.F.
g. RANGE OUTLET	0.50m A.F.F.
h. REFRIGERATOR OUTLET	0.50m A.F.F.
i. ACU (WINDOW TYPE)	AS REQUIRED UNDERFIELD CONDITION
- OUTLET BOXES SHALL BE AS FOLLOWS:

LIGHT OUT	1-1/2" DEEP, 4" OCTAGONAL BOX 1 OR 2 WAY ENTRIES
RECEPTACLES AND TELEVISION ANT. AND TELEPHONE OUT	2-1/8" DEEP, 4" OCTAGONAL BOX 3 OR 4 WAY ENTRIES
	1-1/2" DEEP, 4" SQUARE BOX WITH 1-GANG RAISED PLASTIC COVER FOR 3 OR 4 RACEWAY ENTRIES
- ALL FLUORESCENT LAMPS SHALL BE PROVIDED WITH POLYESTER FILLED PRE-HEAT THERMALLY PROTECTED HIGH POWER BALLAST.
- DUPLEX RECEPTACLES SHALL BE RATED 15 AMP, 250 VOLTS, ROUNDED SLOT FOR 250 VOLTS AND SPECIAL OUTLETS SHALL BE RATED 15AMP, 250 VOLTS AS REQUIRED.
- THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY FEES REQUIRED FOR THE WORKS, AND SHALL FURNISH THE OWNER THROUGH THE ENGINEER'S FINAL CERTIFICATE OF INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETE WORKS.
- EXPOSED CONDUIT RUN SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE FLOOR AND SUPPORTED BY CLAMPS EVERY 152.4 CM. DIAGONAL RUN SHALL NOT BE ACCEPTED. (THIS IS ALSO APPLICABLE TO CONDUITS RUNNING OVERHEAD INSIDE CEILING.)
- ALL 30-AMPERES CIRCUIT HOMERUN TO PANELBOARD MORE THAN 30 METERS IN LENGTH SHALL BE 5/8" THIN (#16 AWG), UNLESS OTHERWISE SPECIFIED ON PLANS.
- ADDITIONAL MATERIALS SPECIFICATIONS:

a. WIRES AND CABLES	PHILFLEX OR APPROVED EQUAL
b. CIRCUIT BREAKER (BOLT-ON TYPE)	MITSUBISHI/SQUARE D/DAB/SIEMENS
c. WIRING DEVICES	CLIPSAL O-CONCEPT / NATIONAL WIDE SERIES
d. POLYVINYL CHLORIDE CONDUIT (PVC)	CROWN SUPREME SCH. 40
e. JUNCTION/UTILITY BOX GA-16	FUMACO
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKER, EACH PANEL, WILL BE PROVIDED WITH A TYPEWRITTEN CIRCUIT DIRECTORY.
- THE JOB SHALL BE EXECUTED IN THE MOST THOROUGH 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.
- THE DRAWING AND SPECIFICATIONS ARE INTENDED TO PRESENT A GENERAL LAYOUT AND BROAD OUTLINE AND DISTANCES OF EQUIPMENT. THE CONTRACTOR IS HEREBY REQUESTED TO MAKE ADJUSTMENT AT THE JOBSITE AS LOCATIONS, LEVELS AND DISTANCES ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- WIRES SHALL BE COLOR CODED:

LINE 1 — BLACK	LINE 2 — RED	GROUND — GREEN
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- THERE SHALL BE ONLY ONE SERVICE DROP TO THE PROPOSED BUILDING. SECONDARY SERVICE ENTRANCE SHALL BE 250 VOLTS, SINGLE-PHASE, 2WIRE+GROUND, 60-H.
- 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 CEASE AS A WHOLE.
- ALL WEATHER-EXPOSED INSTALLATIONS SHALL USE WEATHERPROOF TYPE MATERIALS, ESPECIALLY WEATHERPROOF CONVENIENCE OUTLET, CAST-BOXES, JUNCTION BOXES SUBMIT SAMPLE FOR APPROVAL.
- ALL EQUIPMENT WIRE, ROYAL CORDS, SPECIAL TYPE PLUGS AND RECEPTACLE AS REQUIRED SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER AND / OR MASTER ELECTRICIAN.

- ☐ FOR APPROVAL
☐ FOR CONSTRUCTION
☐ AS-BUILT PLAN

PROJECT TITLE

CONVERSION OF THREE STOREY BUILDING INTO INTERIM BUILDING FOR COLLEGE OF MEDICINE AT BPSU MAIN CAMPUS

LOCATION

BATAAN PENINSULA STATE UNIVERSITY (BPSU) CAMPUS BALANGA CITY, BATAAN

STRUCTURAL ENGINEER

NAME: _____
FIR. NO.: _____
PANEL: _____

WATER PLUMBER/PLUMBING ENGINEER

NAME: _____
FIR. NO.: _____
PANEL: _____

PROFESSIONAL ELECTRICAL ENGINEER

NAME: _____
FIR. NO.: _____
PANEL: _____

PROFESSIONAL MECHANICAL ENGINEER

NAME: _____
FIR. NO.: _____
PANEL: _____

END USER

CAMPUS DIRECTOR

PREPARED BY:

AR. SHANON R. BALUSTITA

DESIGNED BY:

ENGR. ROY JOSEPH P. SANCHEZ

DIRECTOR OF PPS

RECORDED BY:

PROF. JERARDO M. GARCIA

VICE PRESIDENT ADMIN & FINANCE

APPROVED BY:

DR. RUBY R. SANTOS DATIAG

UNIVERSITY PRESIDENT

REPUBLIC ACT 9266.

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SCALE: _____

LEGENDS

GENERAL NOTES

E-9



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