

DISTRICT/CITY/MUNICIPALITY

BUILDING OFFICIAL

LAND USE AND ZONING

LINE AND GRADE

ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

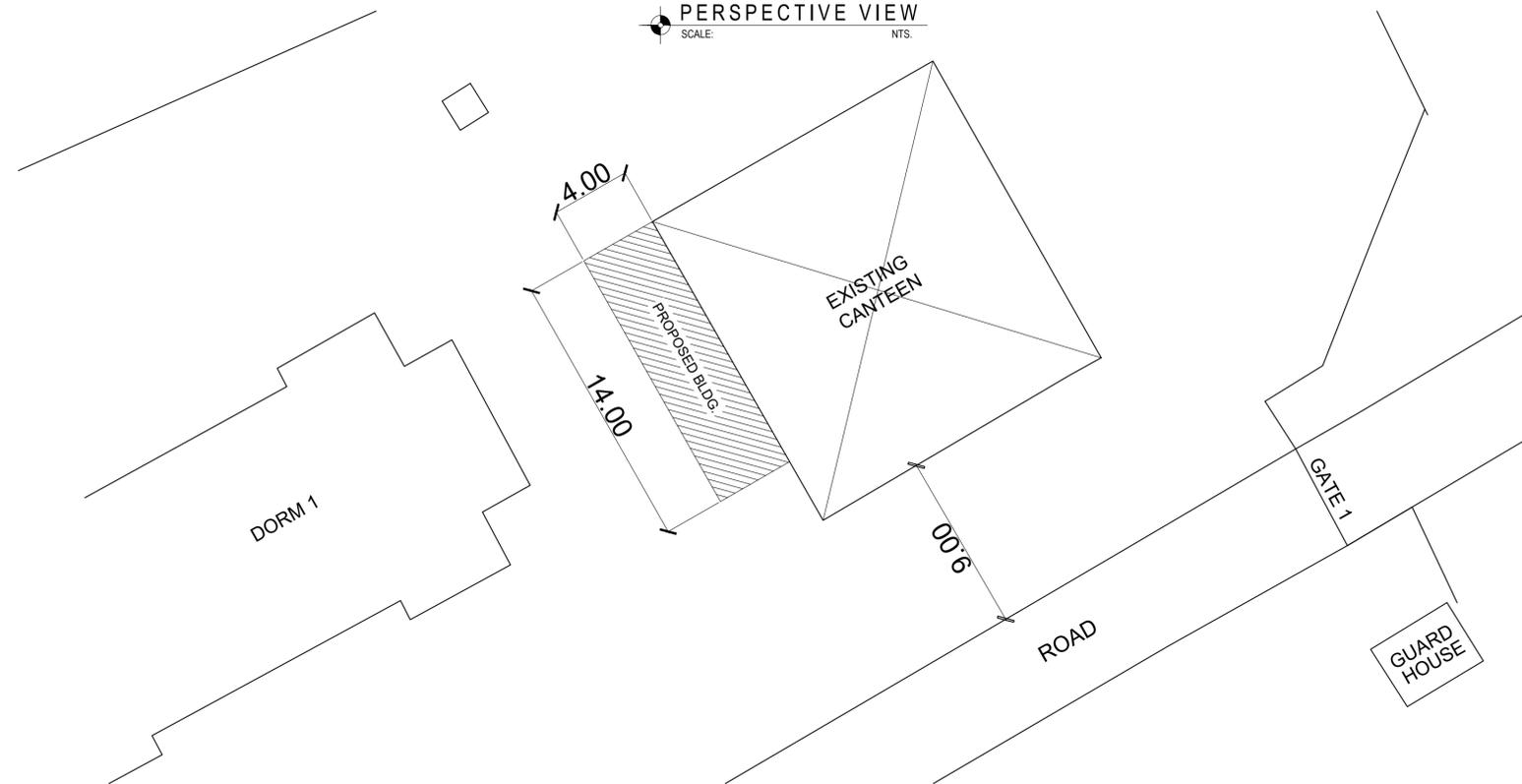
MECHANICAL

FIRE AND SAFETY



ORIENTATION

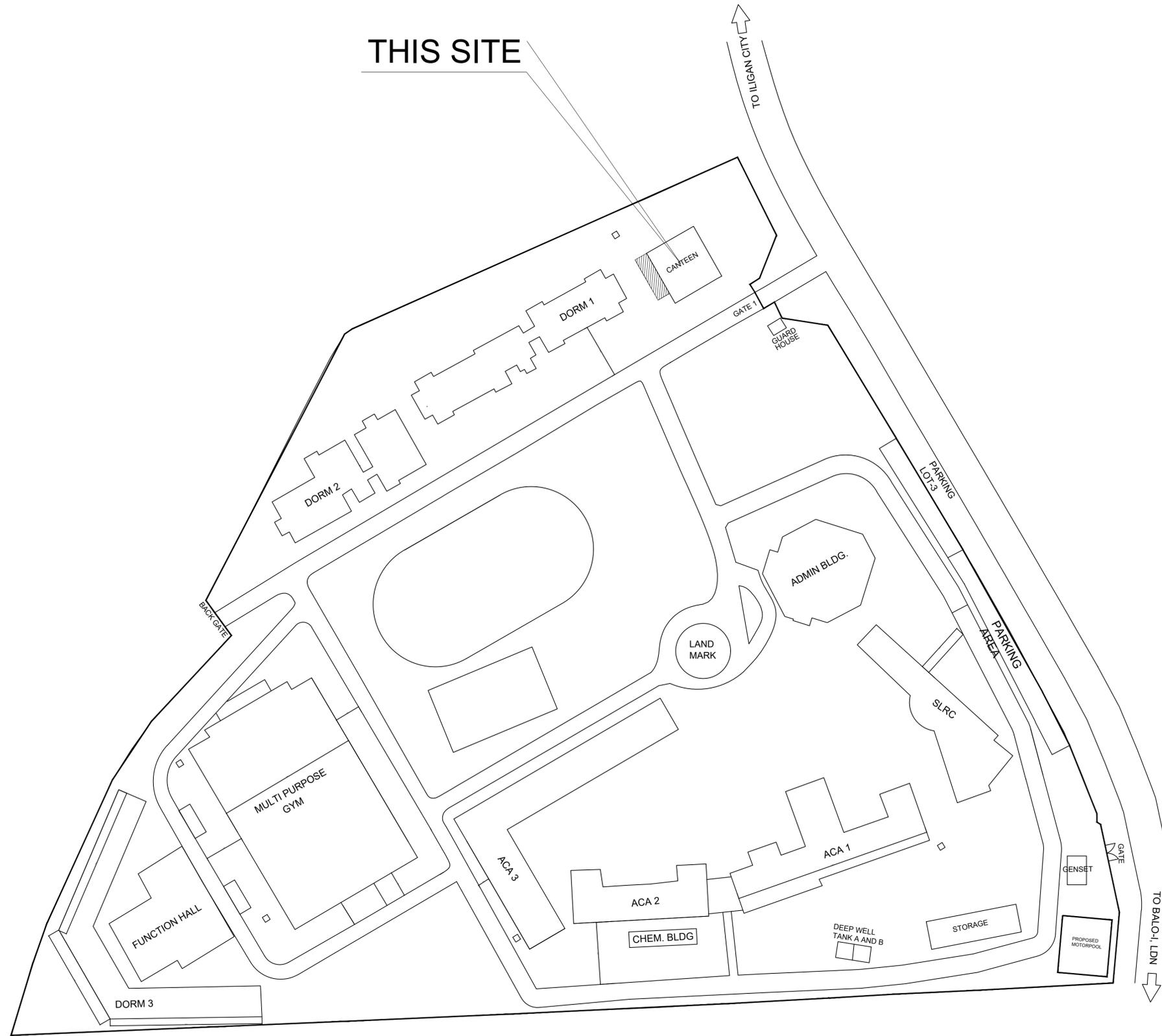
PERSPECTIVE VIEW
SCALE: NTS.



SITE DEVELOPMENT PLAN
SCALE: 1:250 M.

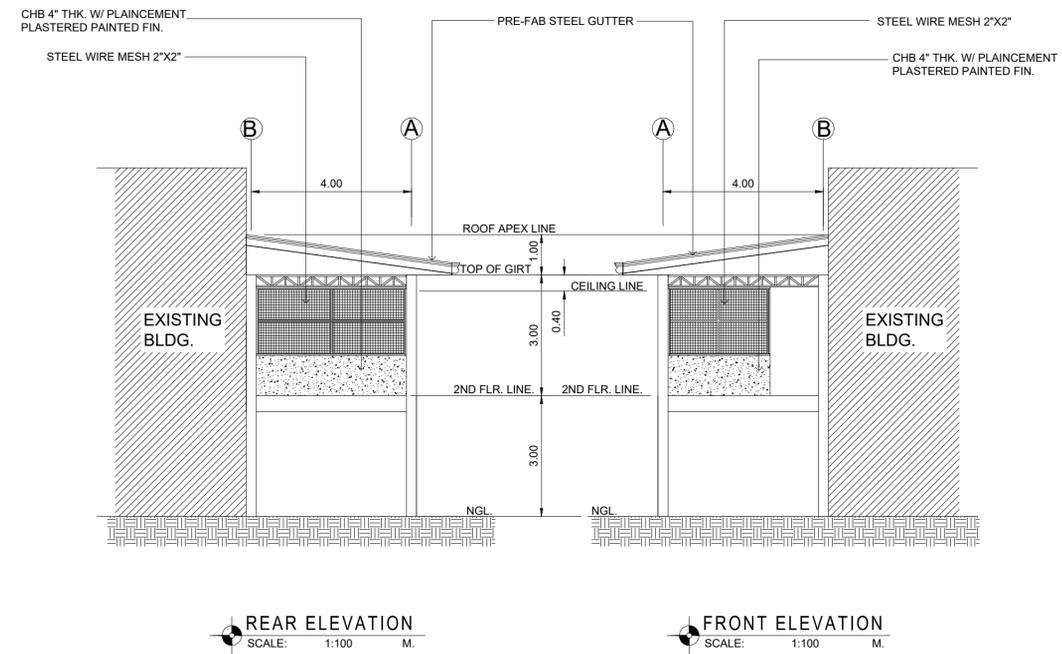
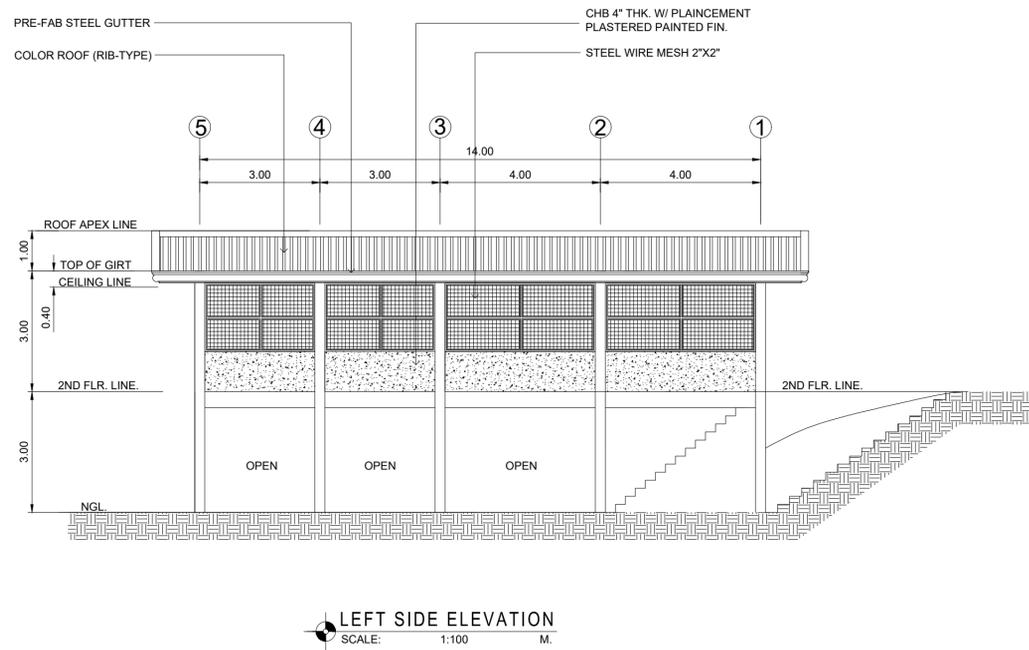
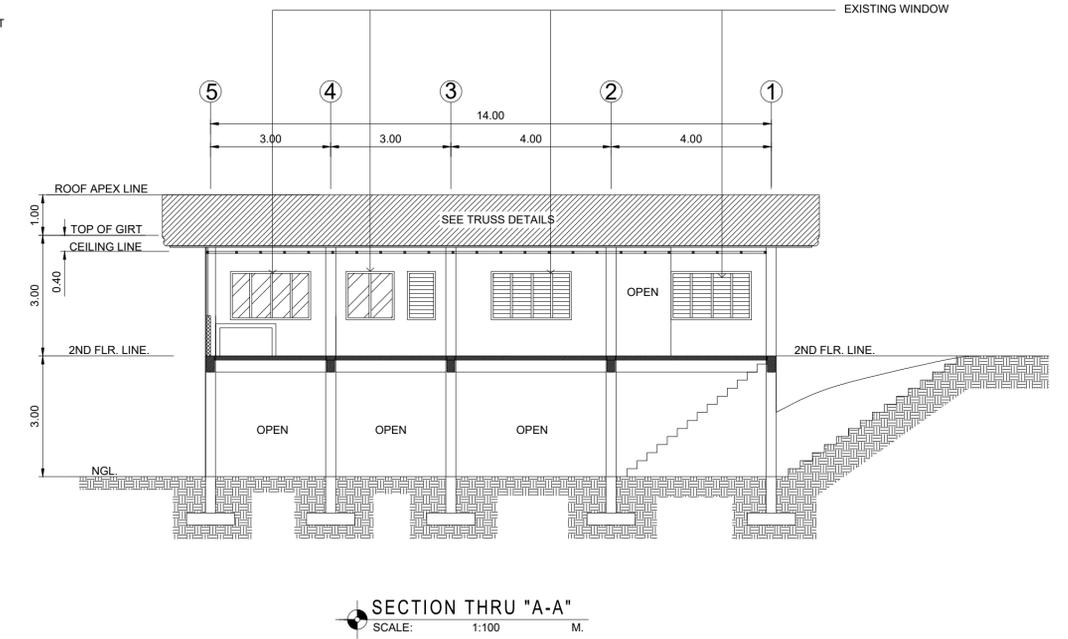
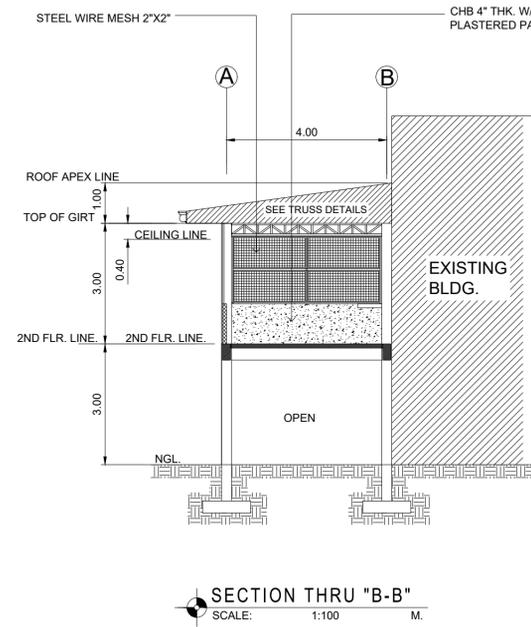
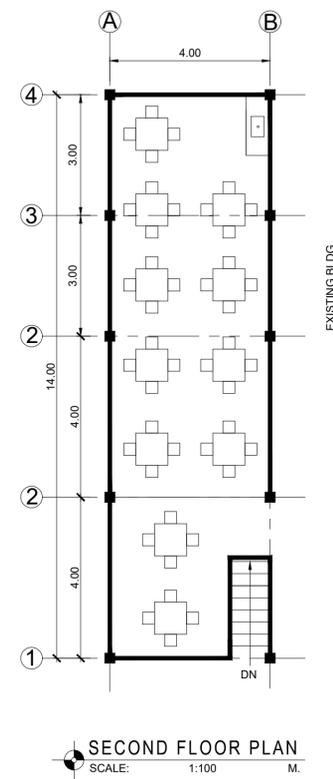
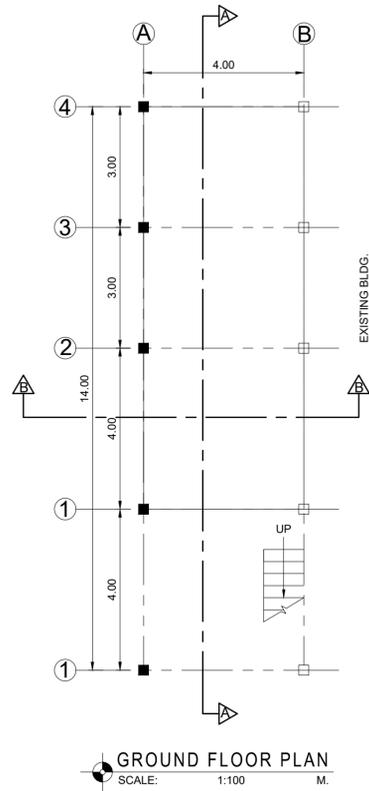


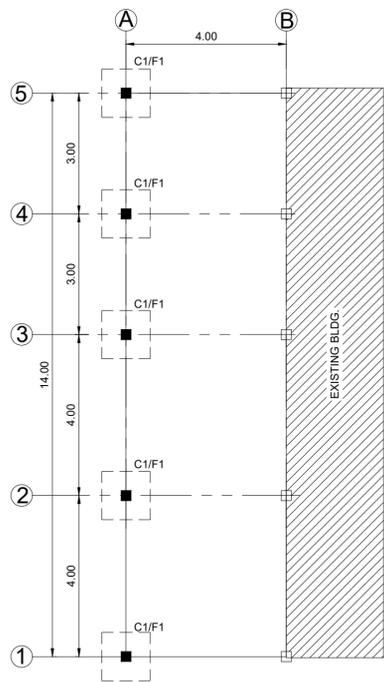
ORIENTATION



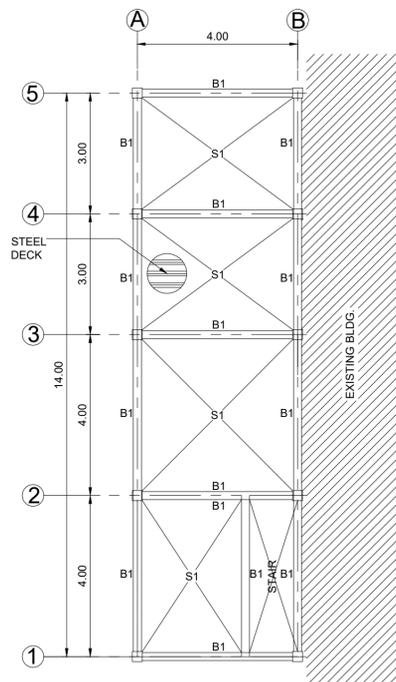
LOCATION PLAN
SCALE: NTS.

	PREPARED BY :	REG. NO.	REVIEWED BY :	CHECKED BY :	APPROVED BY :	PROJECT:	SHEET CONTENTS :	SHT. NO.
	 Civil Engineer	PTR NO. DATE: TIN. NO.	Engr. Jayson C. Vacunador Resident Engineer	 Head Engineer	Franklin L. Salisid Campus Director	PROPOSED CANTEEN LOCATION: NANGKA, BALO-I, LANAO DEL NORTE	LOCATION PLAN	

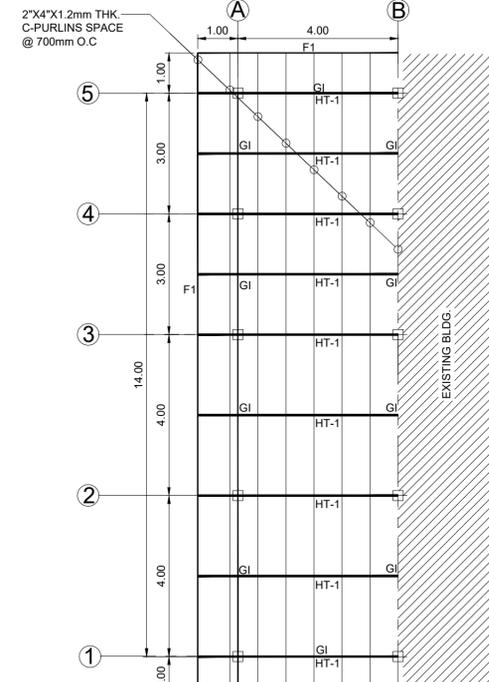




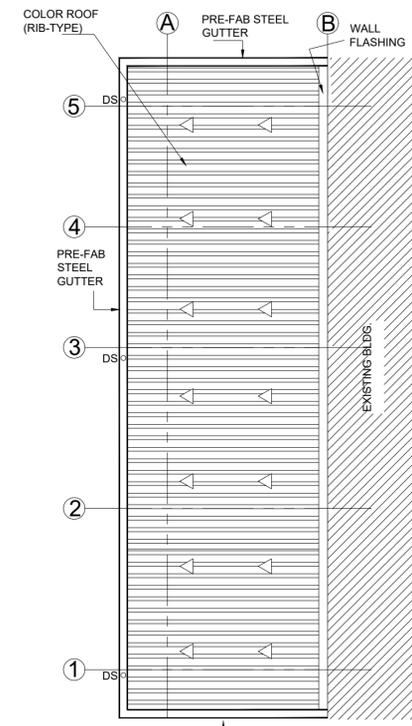
FOUNDATION PLAN
SCALE: 1:100 M.



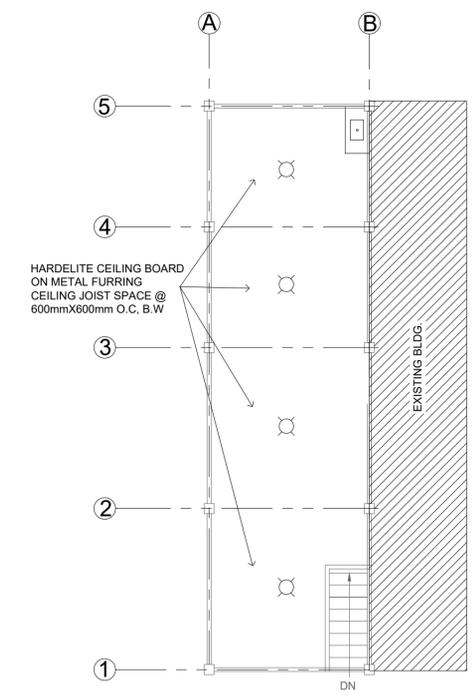
SECOND FLOOR FRAMING PLAN
SCALE: 1:100 M.



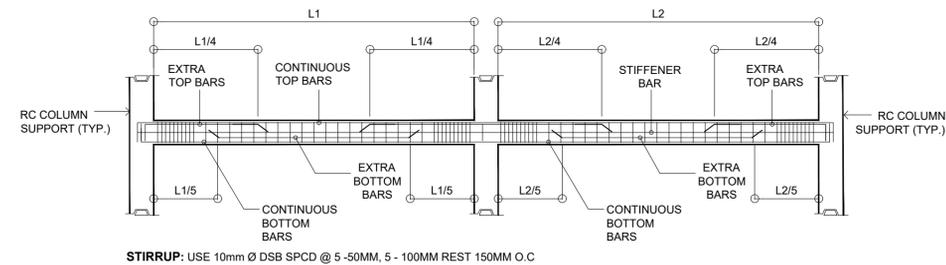
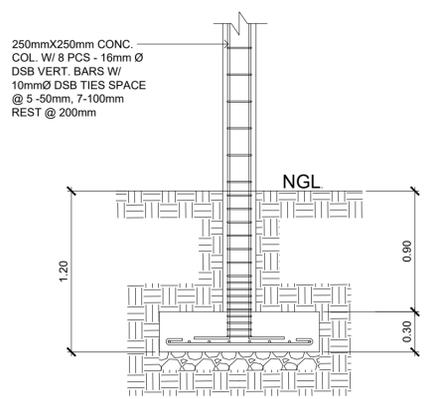
ROOF FRAMING PLAN
SCALE: 1:100 M.



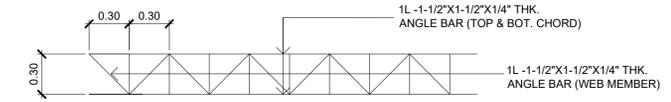
ROOF PLAN
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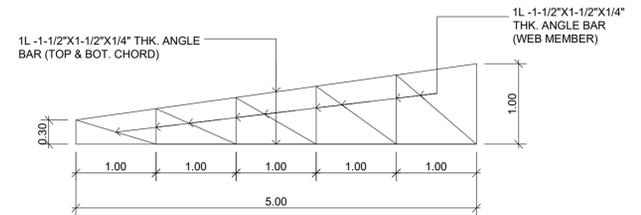
SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1:100 M.



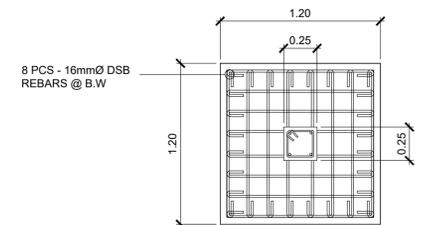
TYPICAL BEAM REINFORCEMENT DETAILS
SCALE: N.T.S.



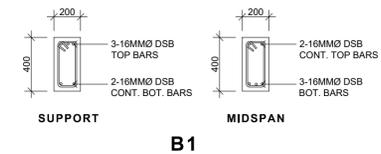
GIRT (G1) DETAILS
SCALE: 1:30 M.



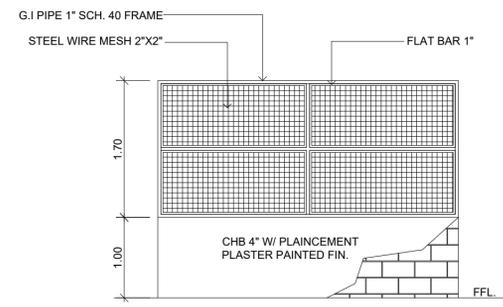
HT-1 DETAILS
SCALE: 1:50 M.



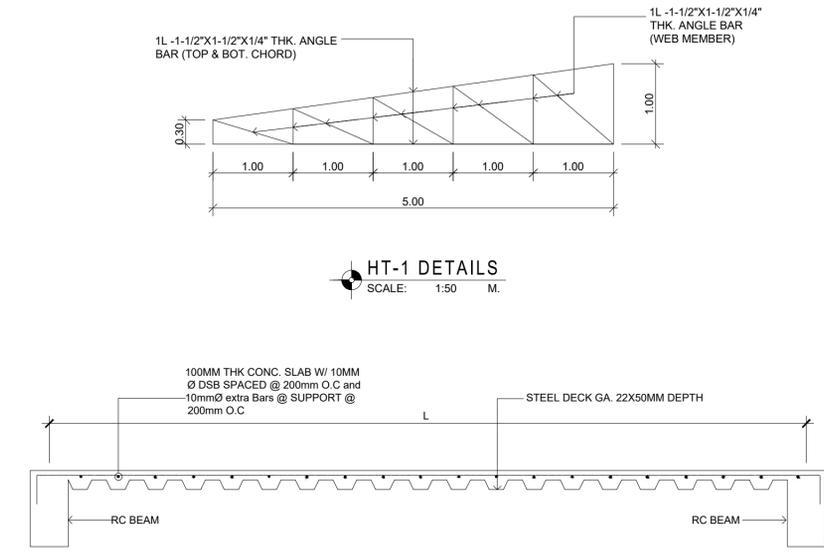
C1/F1 SECTION DETAILS
SCALE: 1:100 M.



BEAM SECTION DETAILS
SCALE: 1:30 M.



WIRE MESH DETAILS
SCALE: 1:70 M.

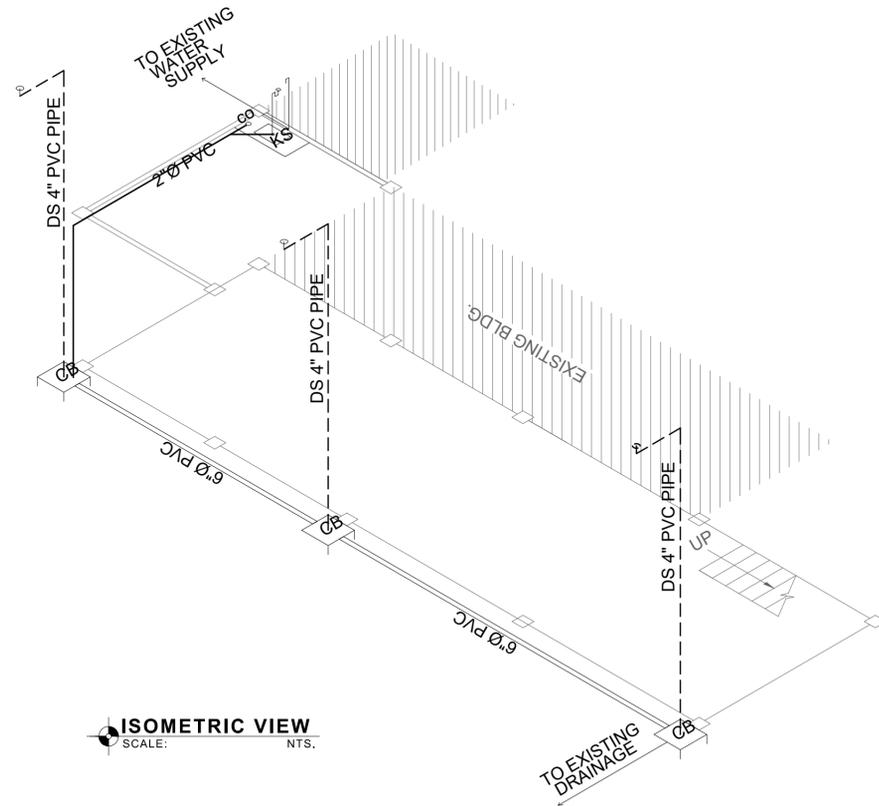


SLAB (S1) DETAILS
SCALE: 1:70 M.

<p>Head Office of the Philippines Department of Science and Technology PHILIPPINE SCIENCE HIGH SCHOOL CENTRAL MINDANAO CAMPUS Nangka, Bala-i, Linao Del Norte</p>	<p>PREPARED BY :</p> <p>JJJASH CONSTRUCTION INSTALLATION</p> <p>Civil Engineer</p>	<p>REG. NO.</p> <p>PTR NO.</p> <p>DATE:</p> <p>TIN. NO.</p>	<p>REVIEWED BY :</p> <p>Engr. Jayson C. Vacunador Resident Engineer</p>	<p>CHECKED BY :</p> <p>Head Engineer</p>	<p>APPROVED BY :</p> <p>Franklin L. Salisid Campus Director</p>	<p>PROJECT:</p> <p>PROPOSED CANTEEN</p> <p>LOCATION: NANGKA, BALO-I, LANA DEL NORTE</p>	<p>SHEET CONTENTS :</p> <p>FOUNDATION PLAN SECOND FLOOR FRAMING PLAN ROOF FRAMING PLAN REFLECTED CEILING PLAN SLAB DETAILS C1/F1 SECTION DETAILS BEAM SECTION DETAILS GIRT DETAILS HT-1 DETAILS</p>	<p>SHT. NO.</p> <p>4/6</p>
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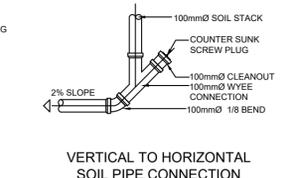
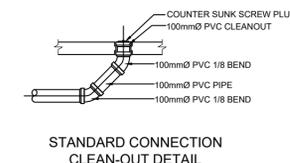
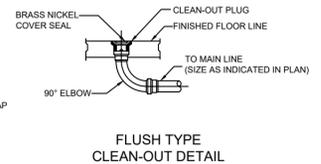
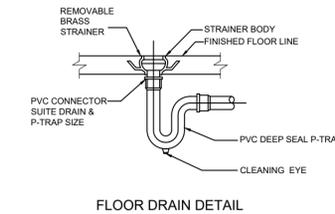
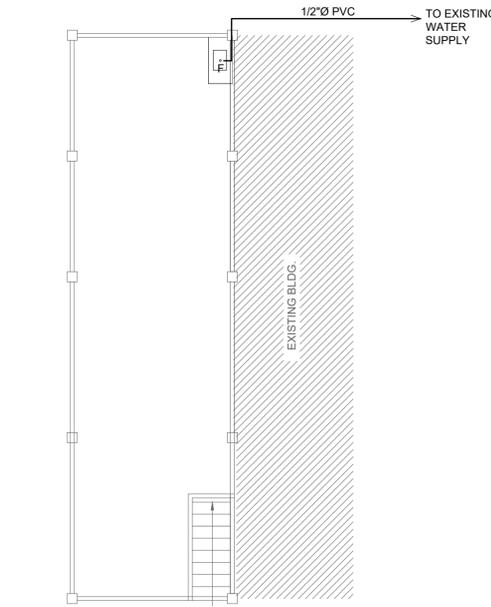
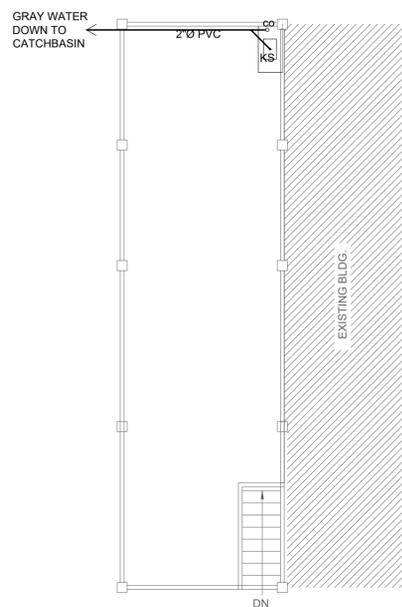
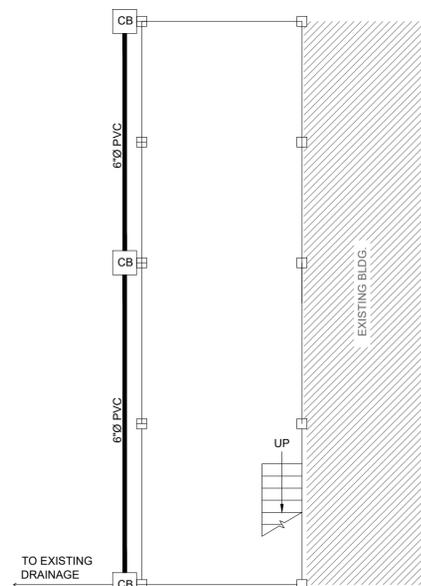
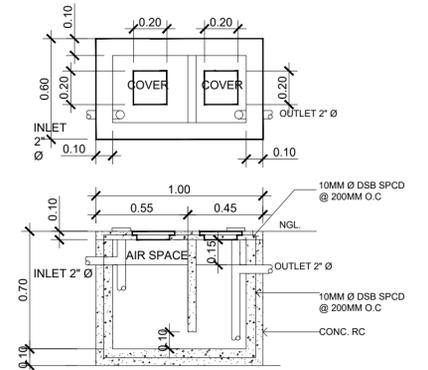
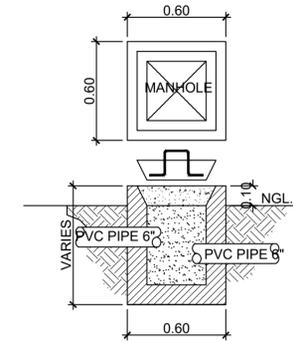
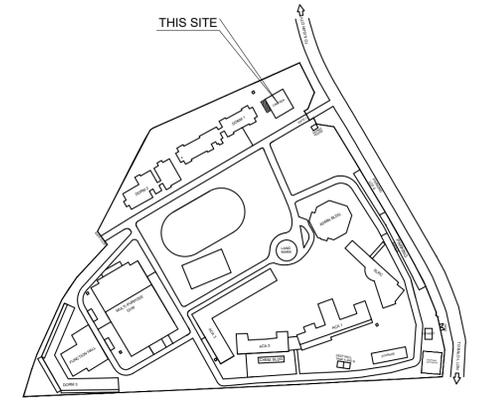
SPECIFICATION:

- GRADES OF HORIZON PIPINGS
RUN ALL HORIZONTAL IN PERFECT ALIGNMENT AND AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
- CHANGE IN DIRECTION:
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY-FIVE DEGREES (45°) WYES, LING SWEEP QUARTER BEND, SIXTH-EIGHTH OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE 1/8 BEND COMBINATION MAYBE USED ON VERTICAL STACKS AND SHORT QUARTER BENDS MAYBE USED ON WASTE
- PROHIBITED FITTINGS
NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL AND WASTE LINES, THE DRILLINGS AND TAPPING OF HOUSE DRAIN, WASTE OR BEND PIPES AND USED OF SUTLE HUB AND BEND ARE PROHIBITED.
- PIPE CLEAN-OUTS
CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
a) EVERY CHANGE OF HORIZONTAL DIRECTION EXCEEDING TWENTY-TWO AND ONE-HALF DEGREES (22 1/2°)
b) ONE AND ONE-HALF METERS (1.50m) INSIDE THE PROPERTY LINE BEFORE THE HOUSE DRAINAGE CONNECTION.
c) EVERY FIFTEEN METERS (15.00m) IN HORIZONTAL RUN OF PIPES.
d) AT THE END OF ANY HORIZONTAL PIPE LINES.
- THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
- NOT LESS THAN 0.30 METER OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF SEWAGE AND THE UNDER PART OF VAULT ROOF SLAB.
- NO SEPTIC VAULT SHALL BE CONSTRUCTED UNDER THE BUILDING.
- ALL PLUMBING WORKS SHALL BE UNDER THE SUPERVISION OF A LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.



LEGEND:

- WC - WATER CLOSET
- F - FAUCET
- KS - KITCHEN SINK
- FD - FLOOR DRAIN
- LAV - LAVATORY
- CO - CLEAN OUT
- VTR - VENT THRU ROOF
- MH - MANHOLE
- CB - CATCH BASIN
- GT - GREASE TRAP
- GV - GATE VALVE
- DS - DOWN SPOUT
- SV - SEPTIC VAULT
- WM - WATER METER
- SH - SHOWER HEAD



STANDARD SOIL PIPE CONNECTIONS

SCALE: NTS.

SPECIFICATION:

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC).
THE RULES AND REGULATION OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 1 - PHASE, 2- WIRE, 230 V AC, 60 Hz
- WIRING METHOD SHALL BE AS FOLLOWS:
A. FEEDERS AND RISERS - INTERMEDIATE METLLIC CODUIT
B. LIGHTING POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT
BRANCH CKT., & AUXILIARY SCH. 40
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mmØ TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE PVC.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSED OF USAGE.
- GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
A. LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
B. CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR
C. PANEL BOARD - 1.50 M ABOVE FINISH FLOOR

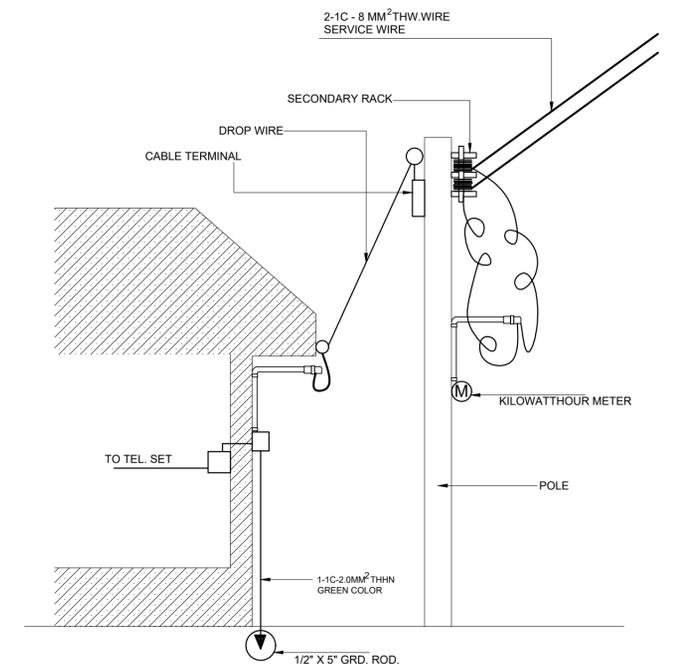
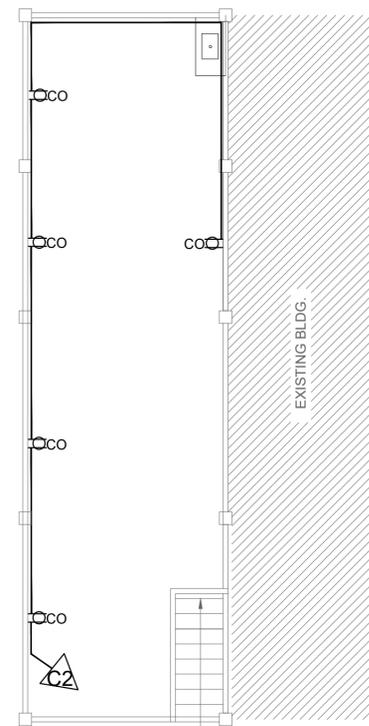
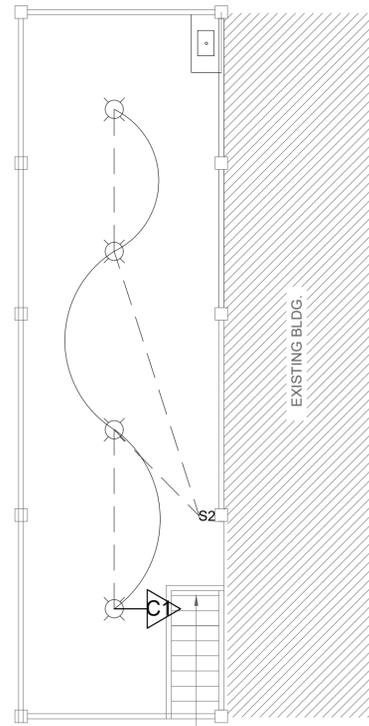
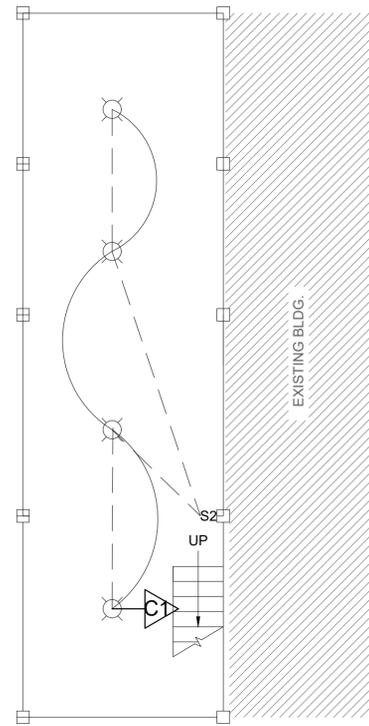
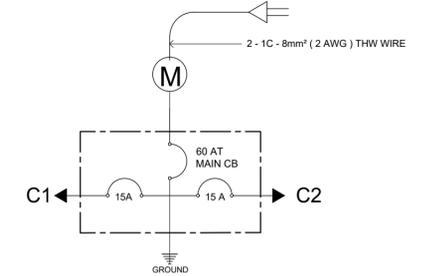
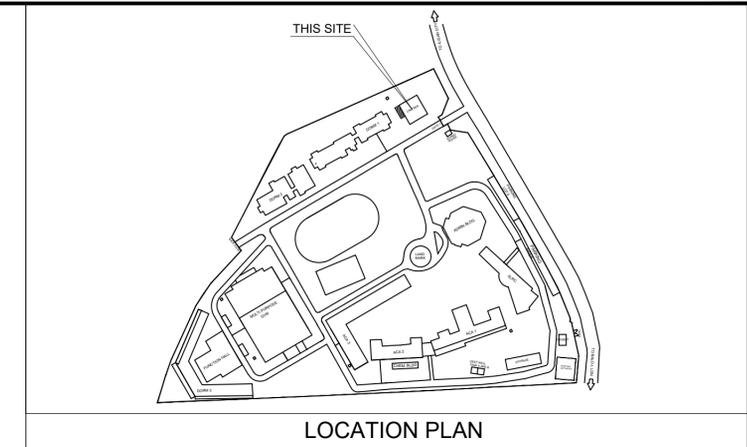
SCHEDULE OF LOADS											
CKT. NO.	LOAD DESCRIPTION	ACU	L.O.	C.O.	WATTS	VOLTS	AMPERE/CKT.	PROTECTION/CKT.	CABLE WIRE SIZE THHN	GROUND GREEN CABLE SIZE THHN	CONDUIT DIA. RSC
PB-1											
C1	LIGHTING OUTLET	—	8	—	800	220	3.64 A	15 A	2 - 1C - 3.5 MM ² THW WIRE	1 - 1C - 2.0 MM ²	20MM dia.
C2	LIGHTING OUTLET	—	—	4	1440	220	6.54 A	20 A	2 - 1C - 5.5 MM ² THW WIRE	1 - 1C - 2.0 MM ²	20MM dia.
	TOTAL		8	4	2,240	220	10.18 A	30 A	2 - 1C - 8 MM ² THW WIRE (2 AWG)	1 - 1C - 2.0 MM ²	20MM dia.

PANEL BOARD # 02			
A. SUB-CONNECTED LOADS OF TWO STOREY RESIDENTIAL BUILDING			
1	TOTAL CONNECTED LOADS	KW	2.24
2	CONNECTED	KVA	2.8
3	% DEMAND FACTOR	%	80
4	DEMAND	KVA	2.24
5	DEMAND AMPERES	AMPS	10.18

FOR MAIN FEEDER SIZE:
AT 125% = 12.725 AMPS
USE 2-1C-30 mmsq (2 AWG) THW with cable ampacities of 110 AMPS
Ground Cable Use: 1-1c-3.5 MMSQ THHN

FOR MAIN CIRCUIT BREAKER PROTECTION:
AT 150% = 15.27 AMPS
USE: 30 AMPERES CIRCUIT BREAKER 2P BOLTED TYPE, 65 KAIC SUB - MAIN PROTECTION

%DEMAND FACTOR = DEMAND LOAD KVA / CONNECTED KVA X 100%
DEMAND LOAD KVA = CONNECTED KVA / DIVERSITY FACTOR 1.25 FOR 100% D.F
2.8 KVA / 1.25 = 2.24 KVA
50 % DEMAND FACTOR = 2.24 KVA / 2.8 X 100% = 80%
DEMAND AMPERES = 2.8 KVA X 0.8 / 0.22 = 10.18 AMPS
GROUND CABLE SIZE:
10.18 AMPS. AT 20% = 2.036 AMPS
1-1C-3.5 MMSQ. (12 AWG)



<p>PHILIPPINE SCIENCE HIGH SCHOOL CENTRAL MINDANAO CAMPUS Nangka, Bala-i, Linao Del Norte</p>	PREPARED BY : Electrical Engineer	REG. NO. PTR NO. DATE: TIN. NO.	REVIEWED BY : Engr. Jayson C. Vacunador Resident Engineer	CHECKED BY : Head Engineer	APPROVED BY : Franklin L. Salisid Campus Director	PROJECT: PROPOSED CANTEEN LOCATION: NANGKA, BALO-I, LANAO DEL NORTE	SHEET CONTENTS : GENERAL SPECIFICATIONS LEGEND SINGLE LINE DIAGRAM SCHEDULE OF LOADS SERVICE ENTRANCE DETAILS GROUND FLR LIGHTING LAYOUT PLAN SECOND FLOOR LIGHTING LAYOUT PLAN SECOND FLOOR POWER OUTLET LAYOUT PLAN	SHT. NO. 6/6
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