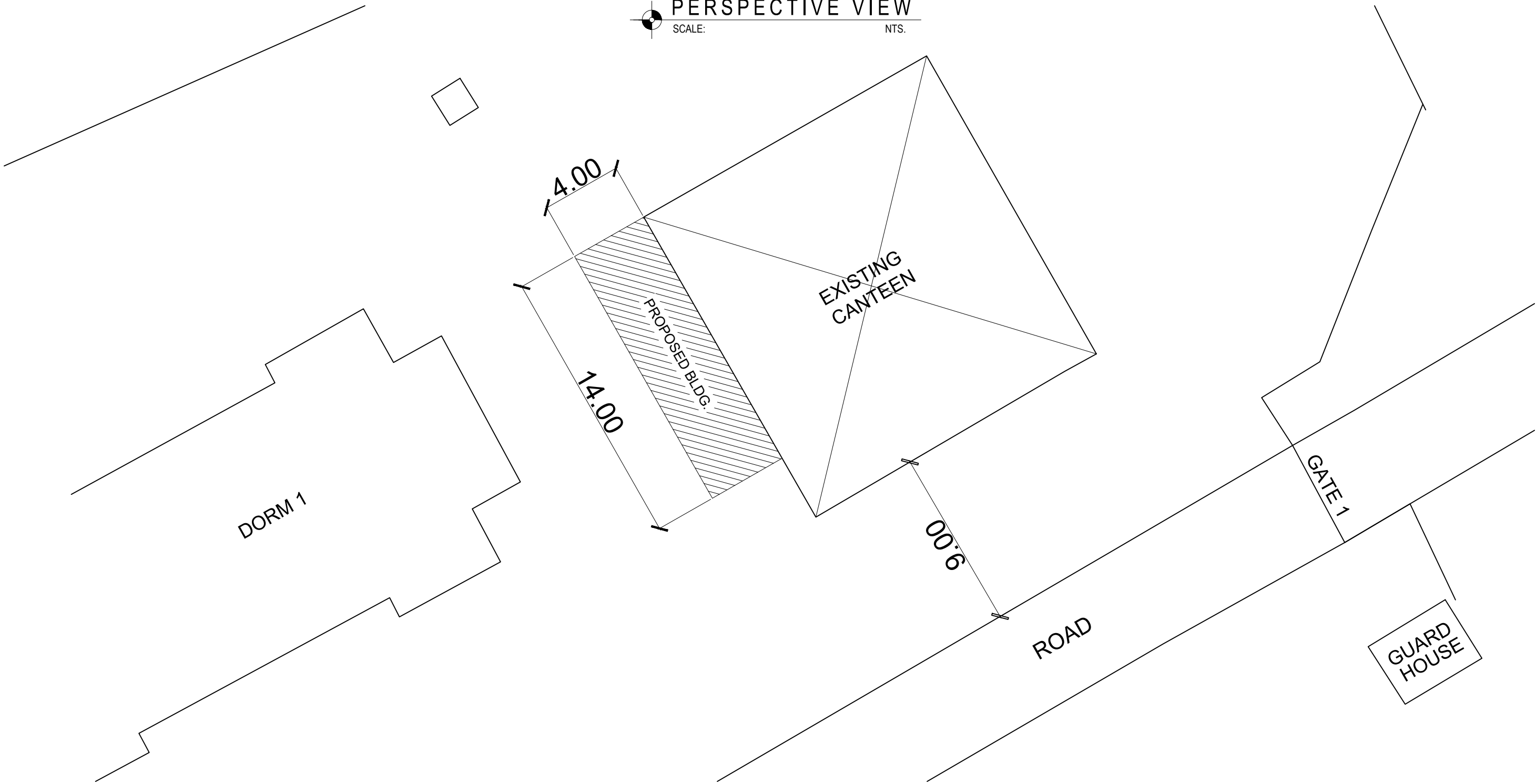
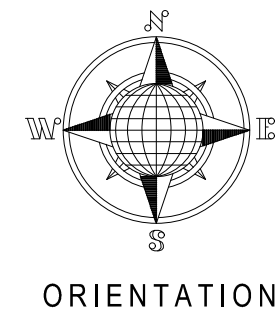


PERSPECTIVE VIEW
SCALE: NTS.

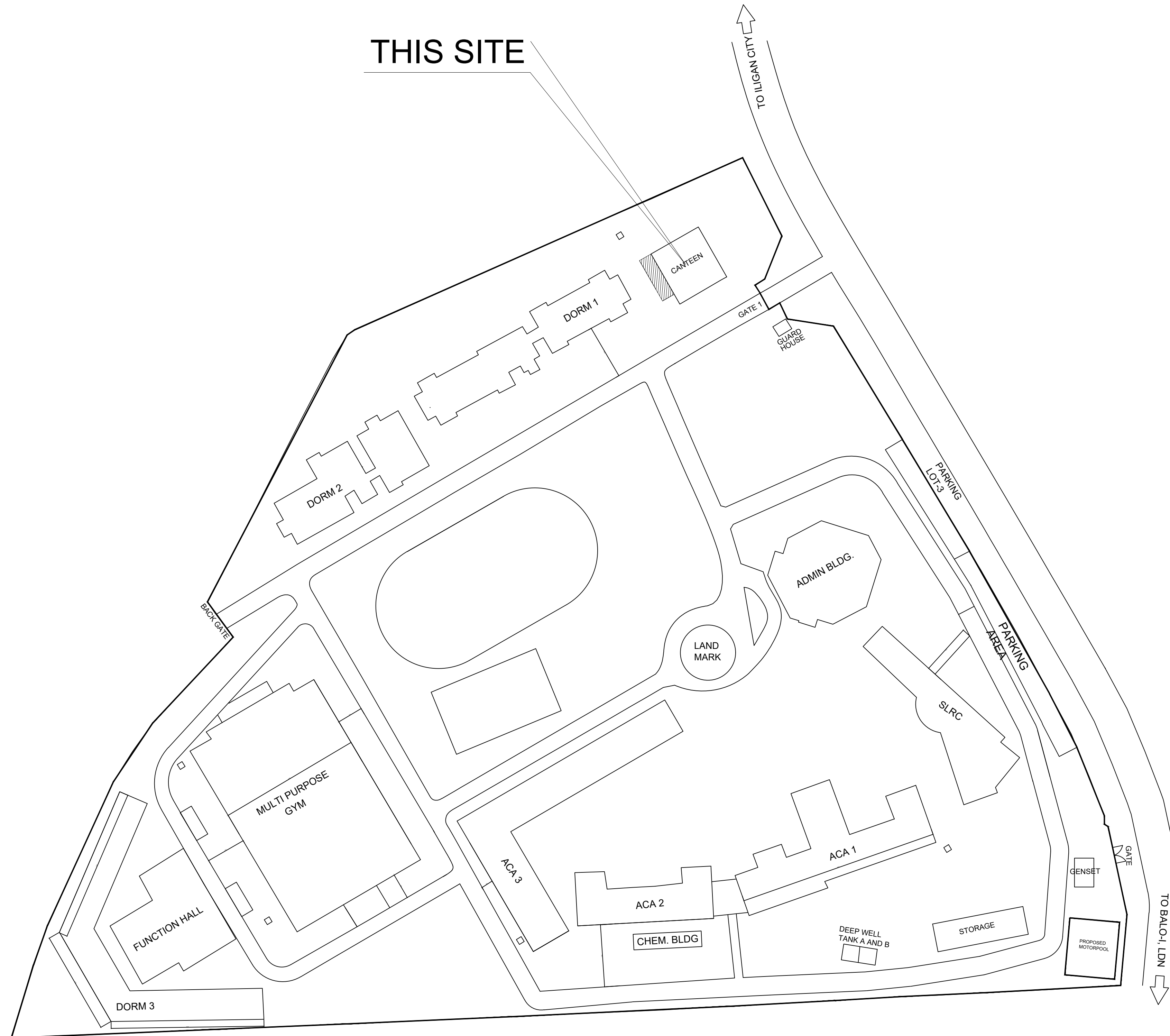


SITE DEVELOPMENT PLAN
SCALE: 1:250 M.

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS OFFICE OF THE BUILDING OFFICIAL
DISTRICT/CITY/MUNICIPALITY
BUILDING OFFICIAL
LAND USE AND ZONING
LINE AND GRADE
ARCHITECTURAL
STRUCTURAL
SANITARY
ELECTRICAL
MECHANICAL
FIRE AND SAFETY



THIS SITE



LOCATION PLAN
SCALE: NTS.



Republic of the Philippines
Department of Science and Technology
PHILIPPINE SCIENCE HIGH SCHOOL
CENTRAL MINDANAO CAMPUS
Nangka, Bala-i, Lanao Del Norte



JJJASH
CONSTRUCTION
INSTALLATION

PREPARED BY :

Civil 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

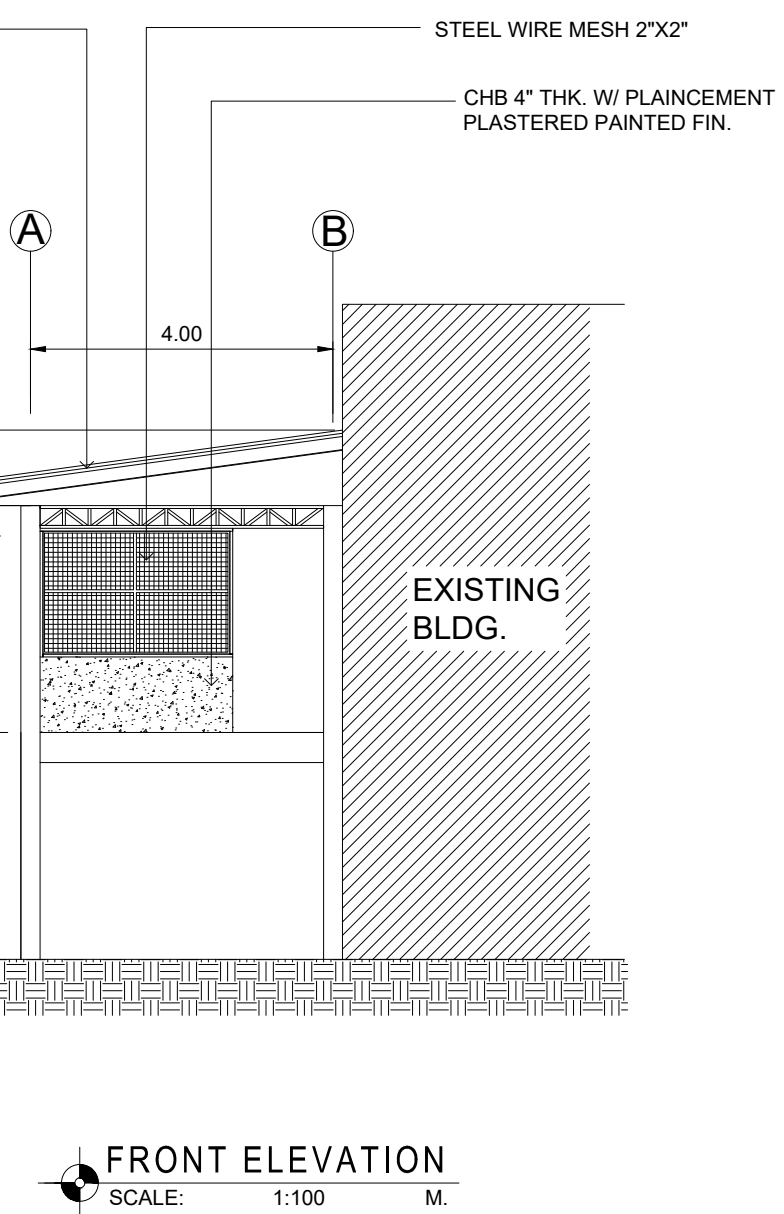
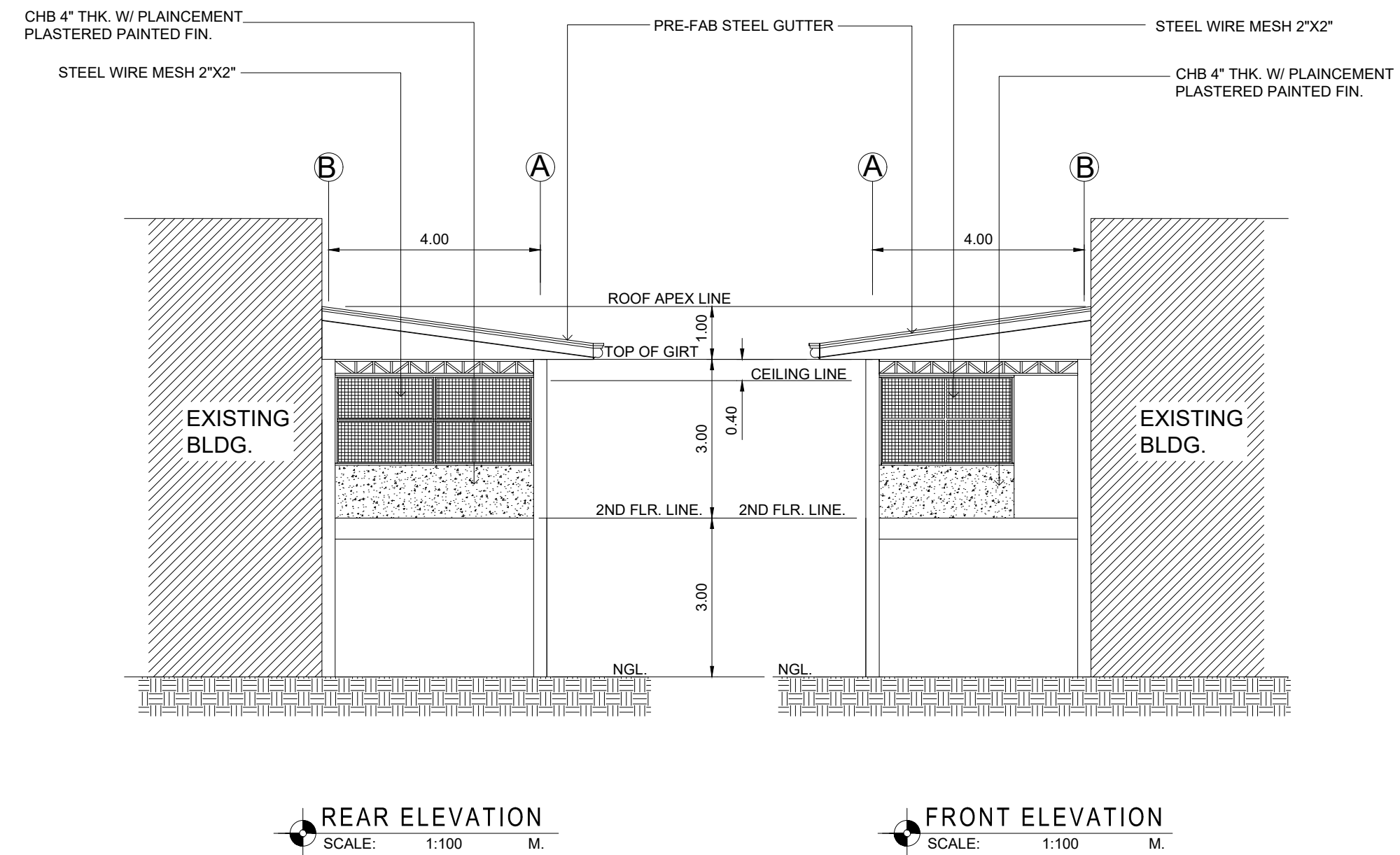
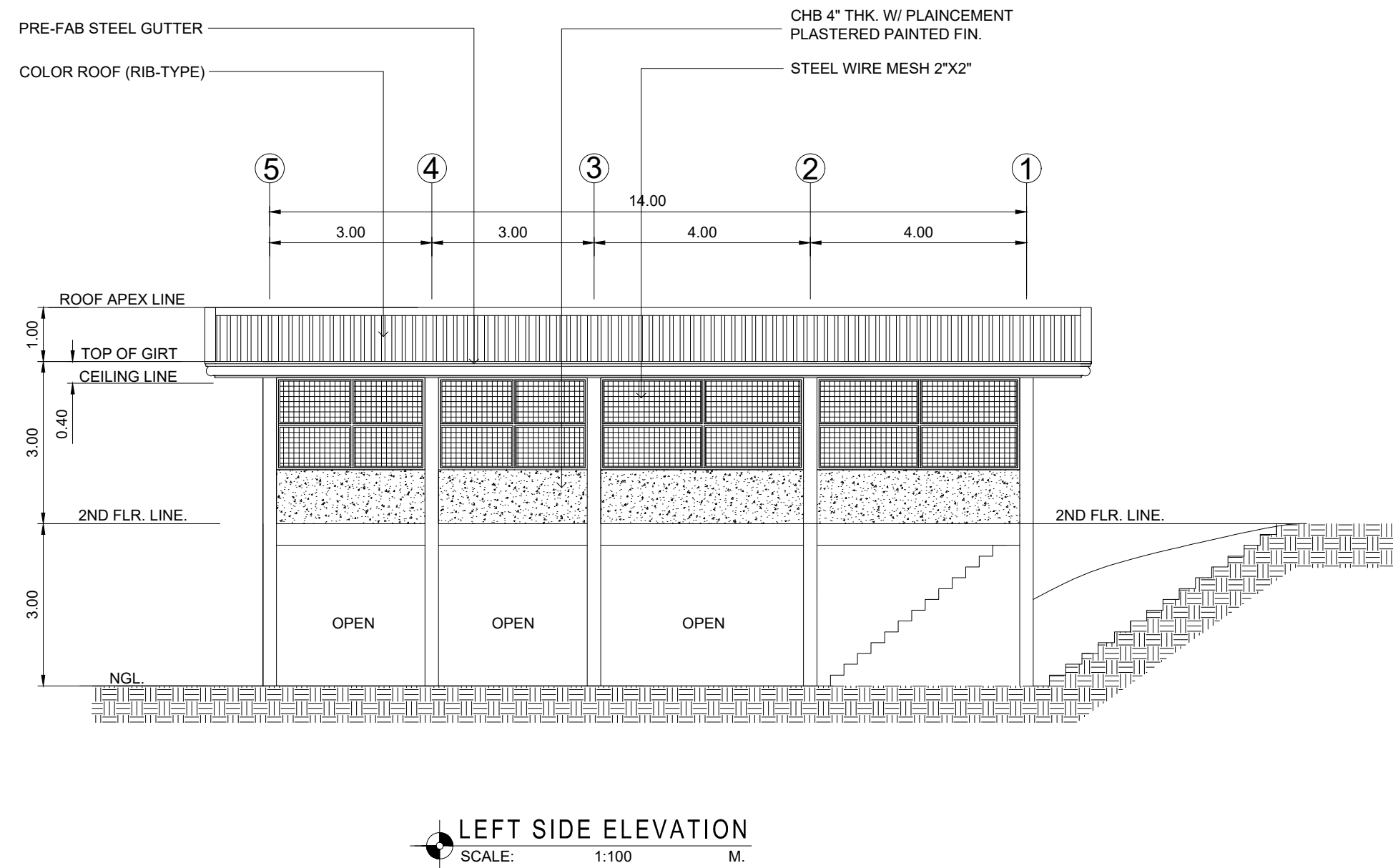
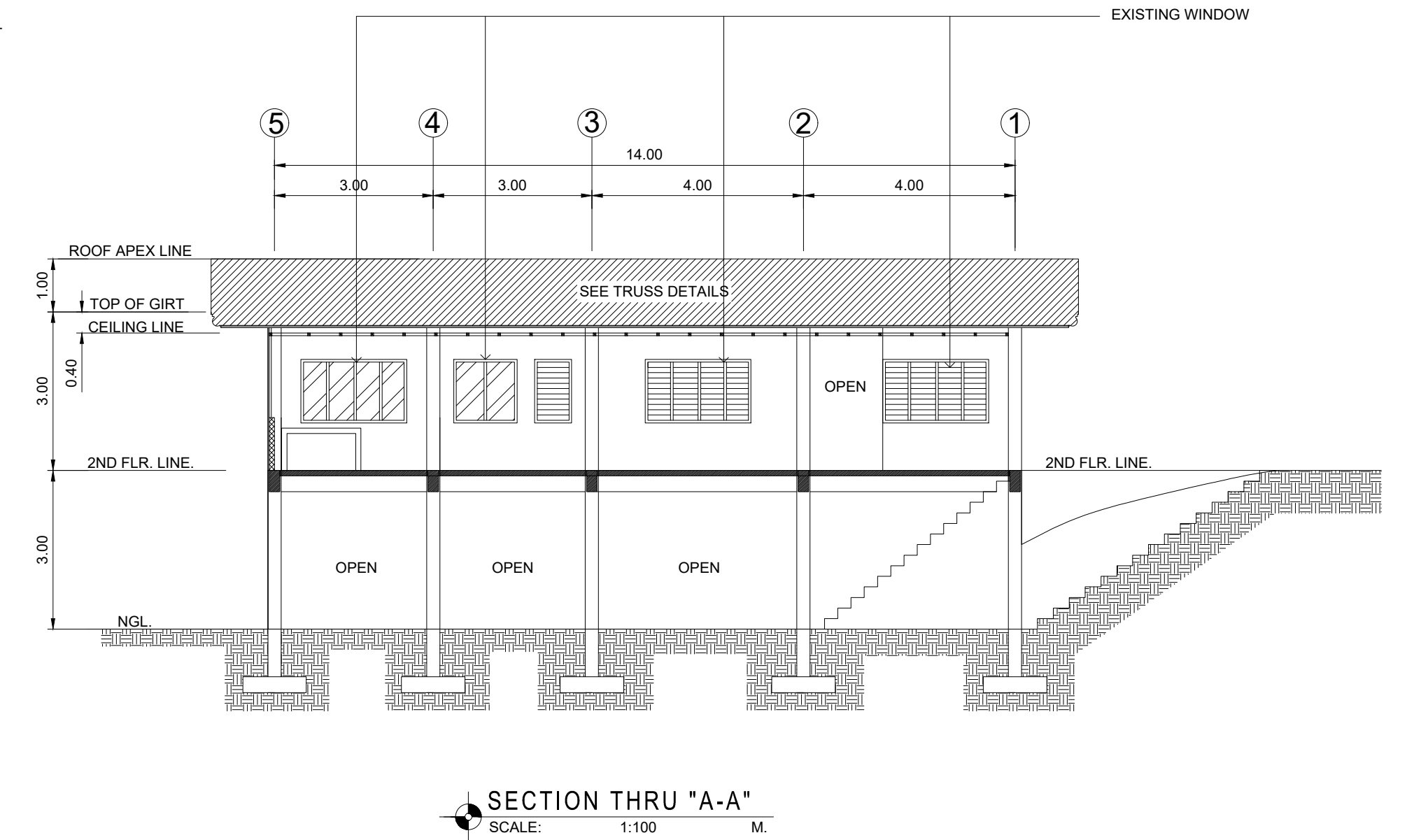
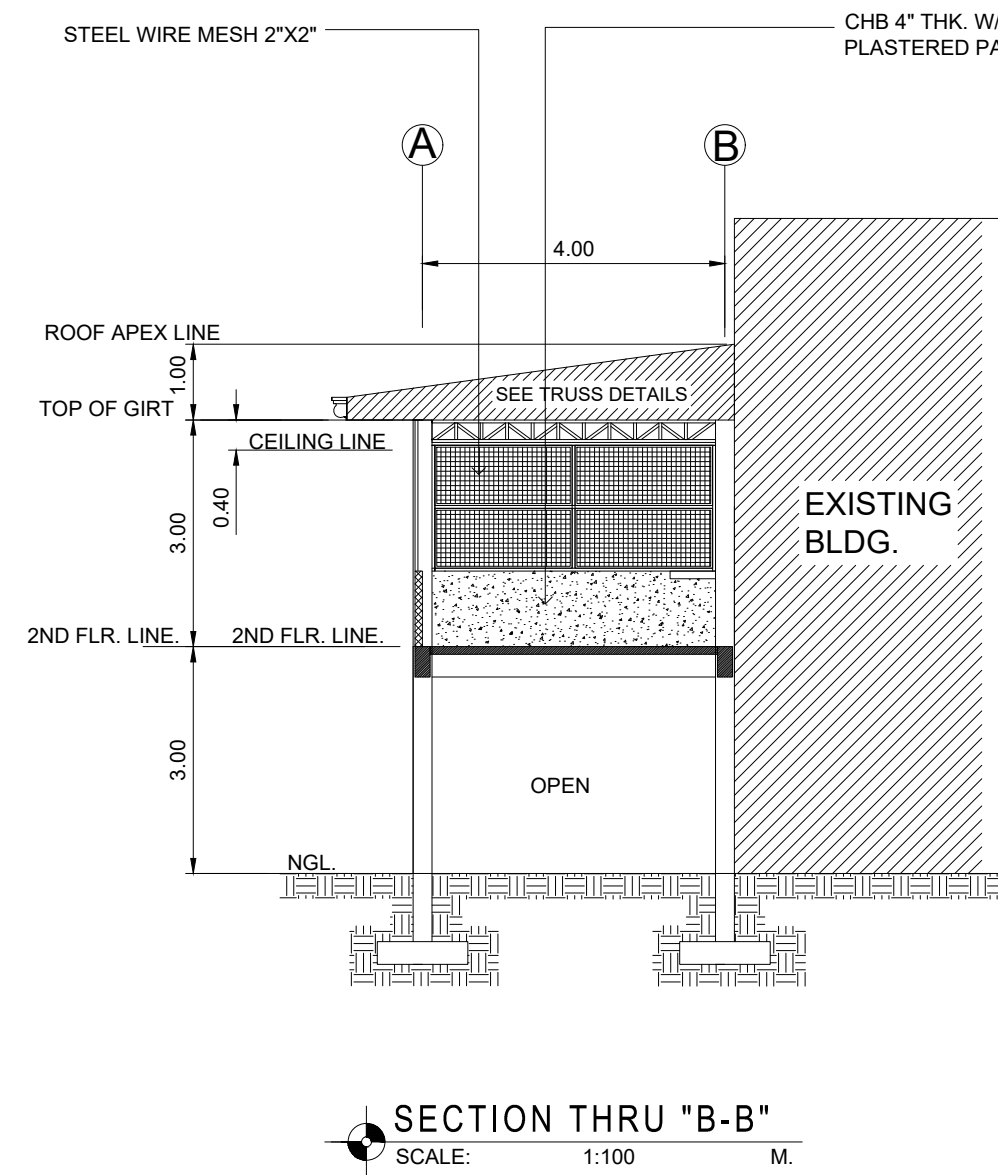
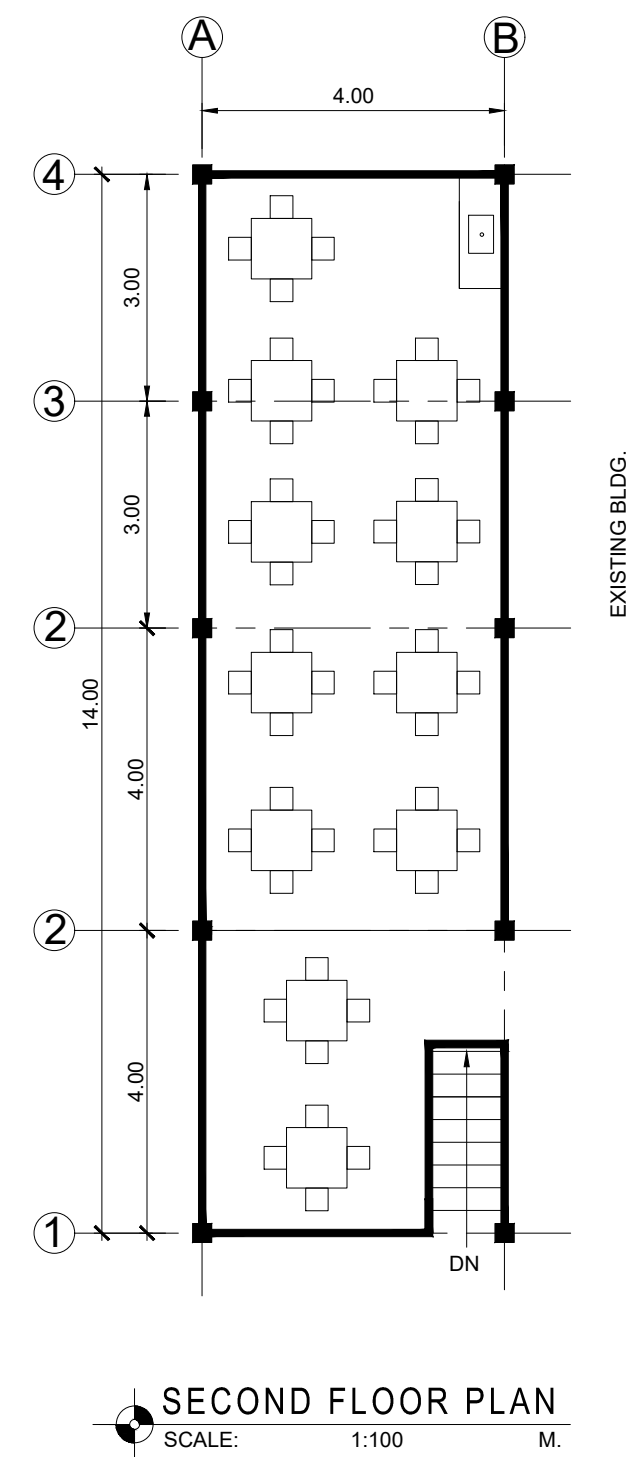
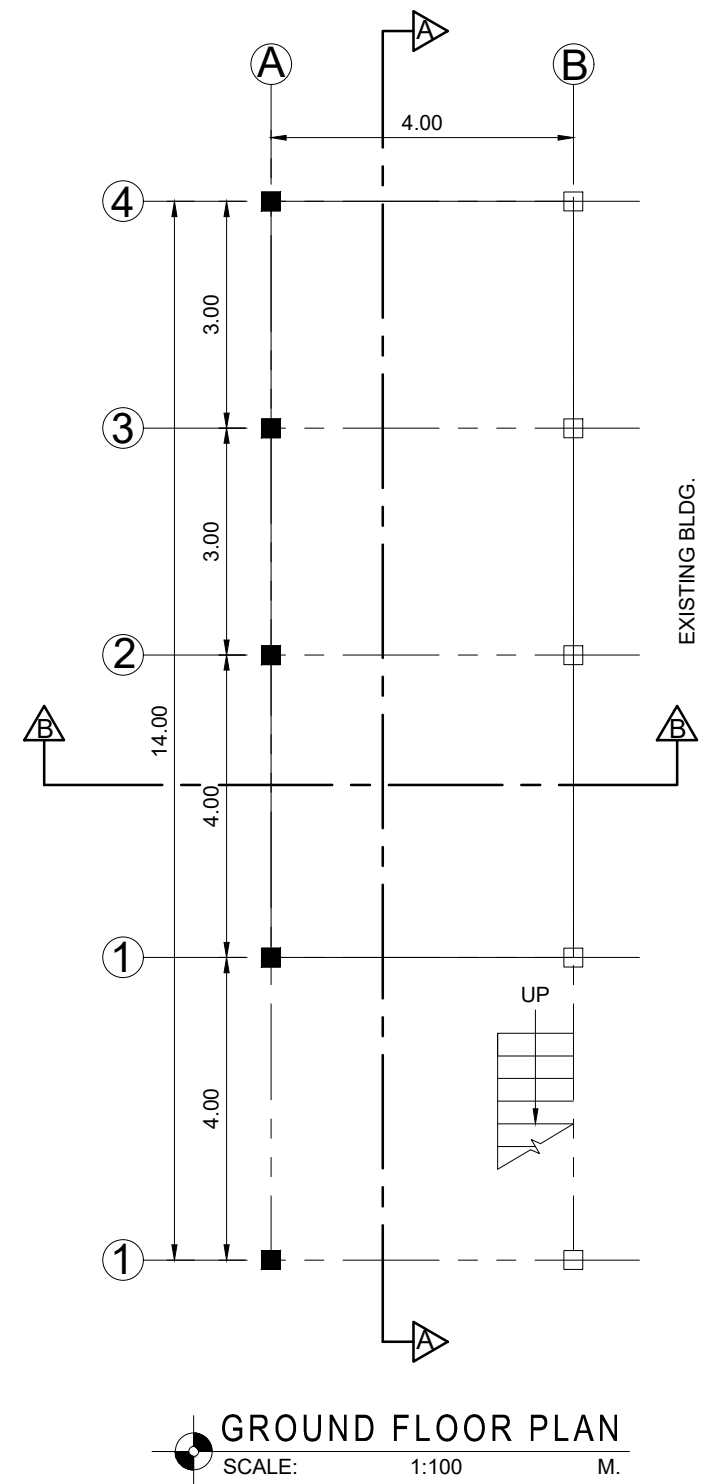
LOCATION: NANGKA, BALOI-I, LANAO DEL NORTE

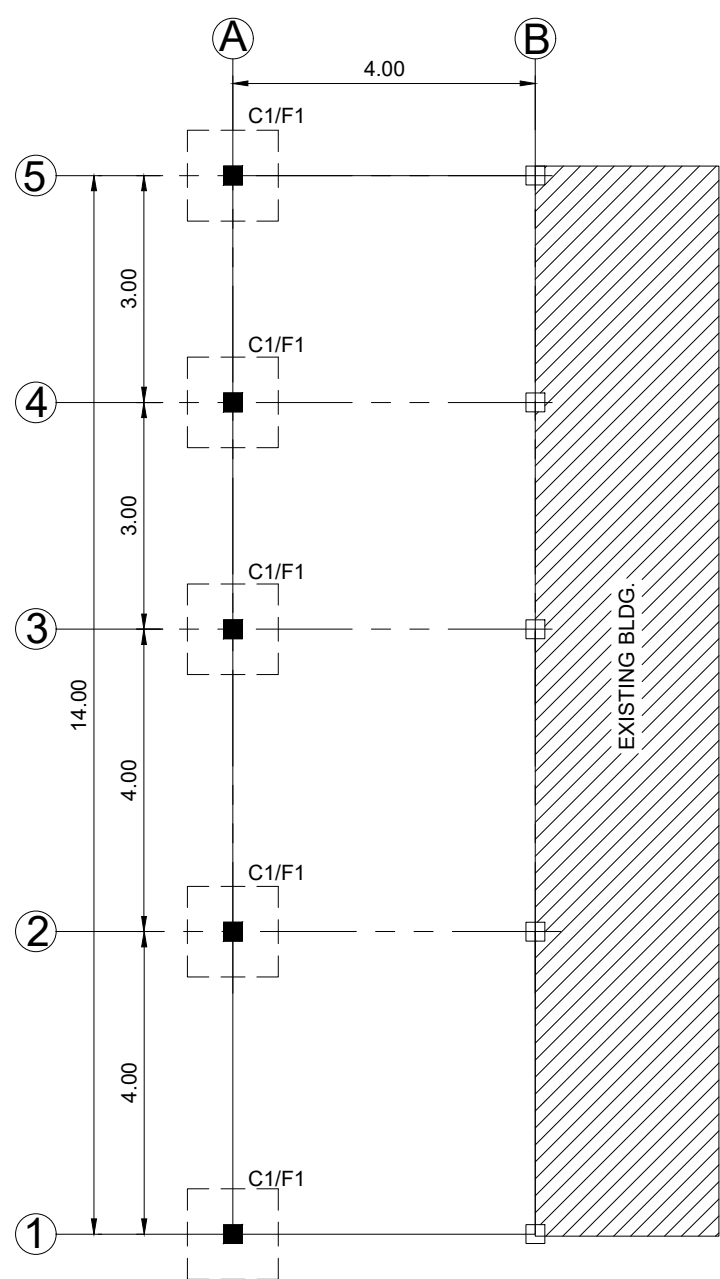
SHEET CONTENTS :

LOCATION PLAN

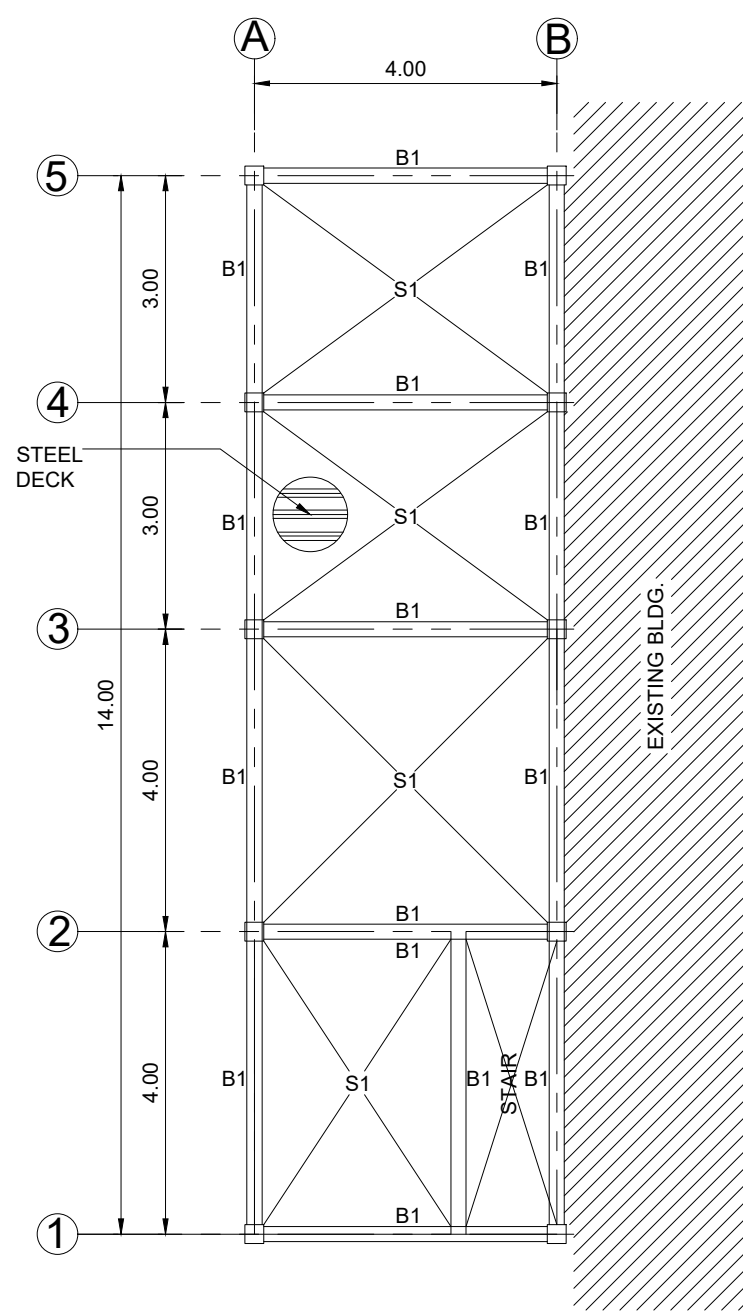
SHT. NO.

2/6

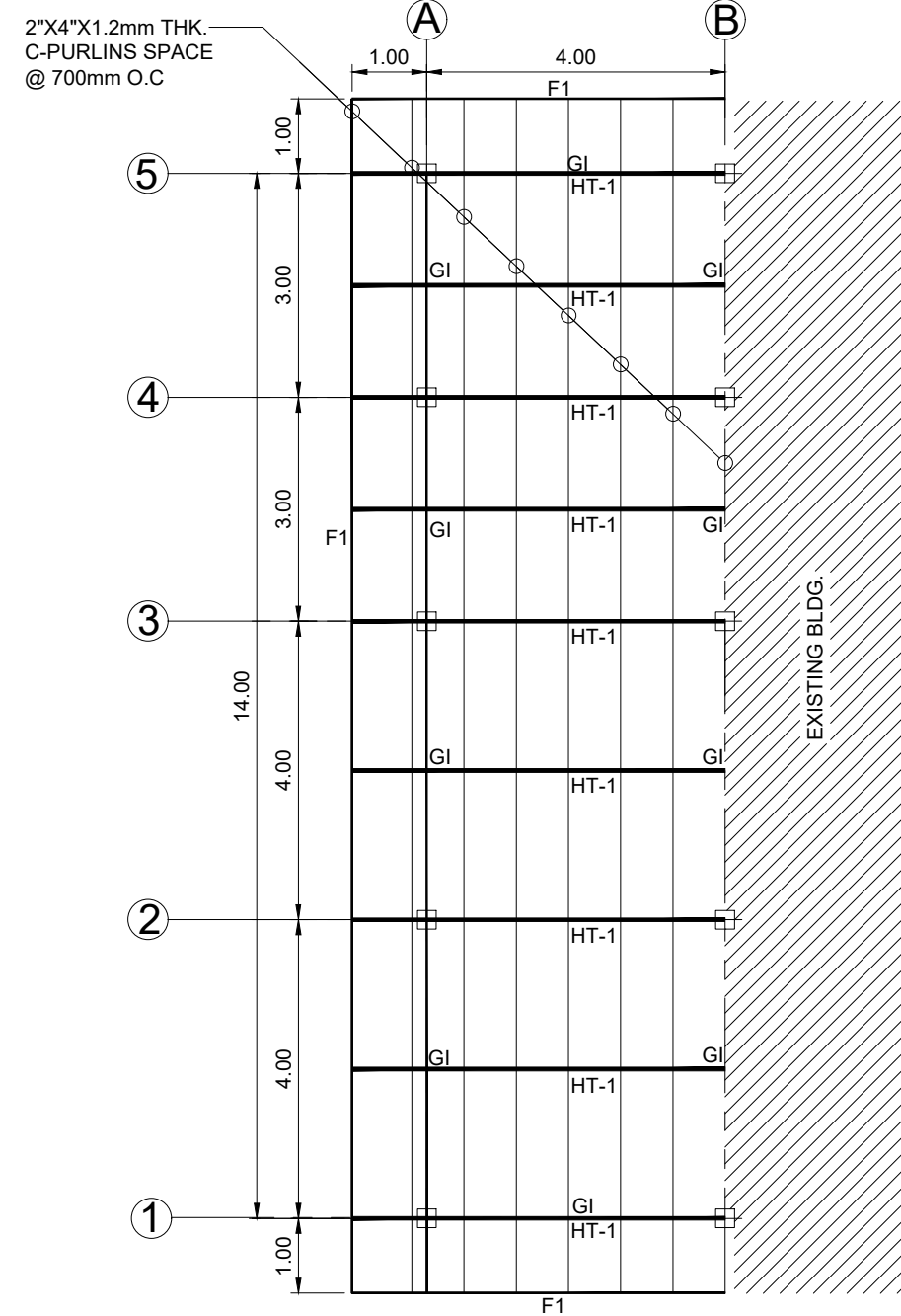




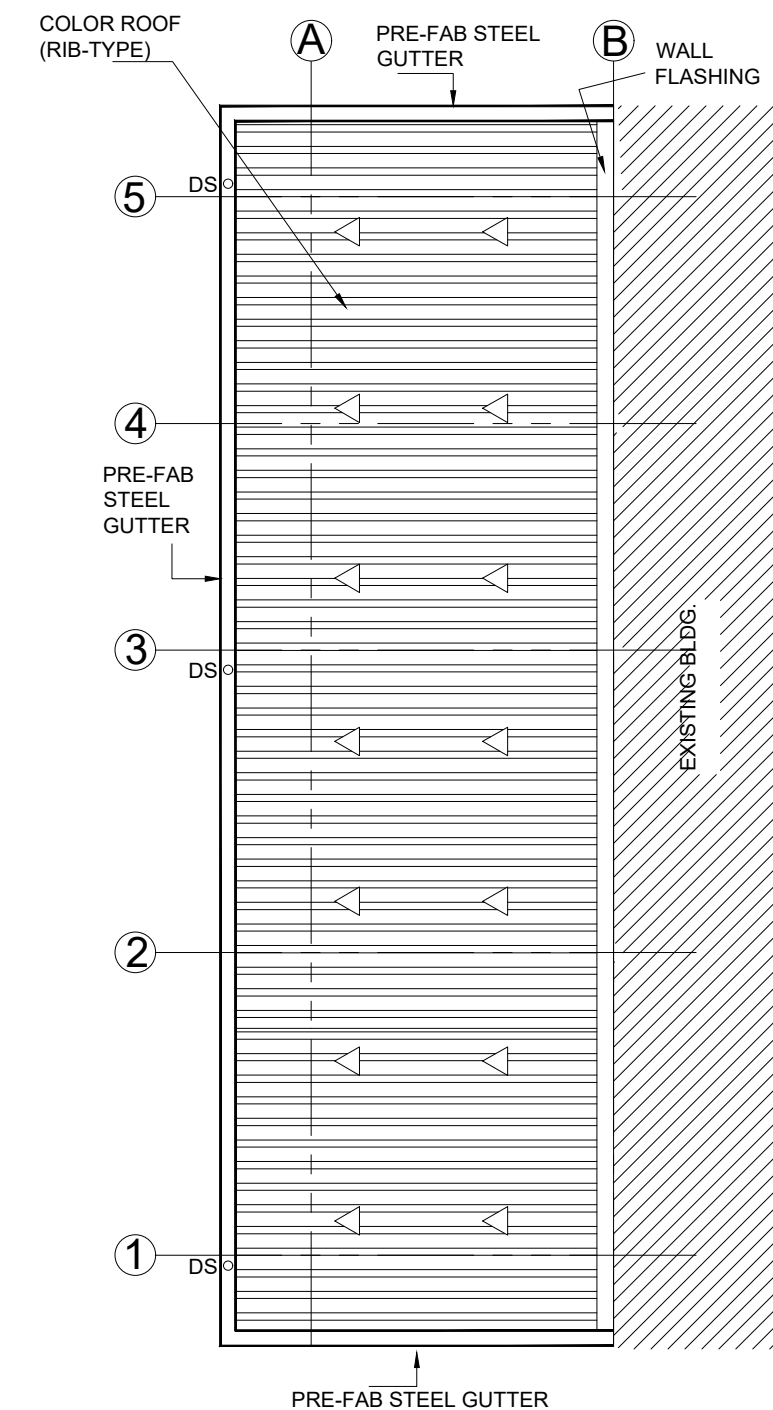
FOUNDATION PLAN
SCALE: 1:100 M.



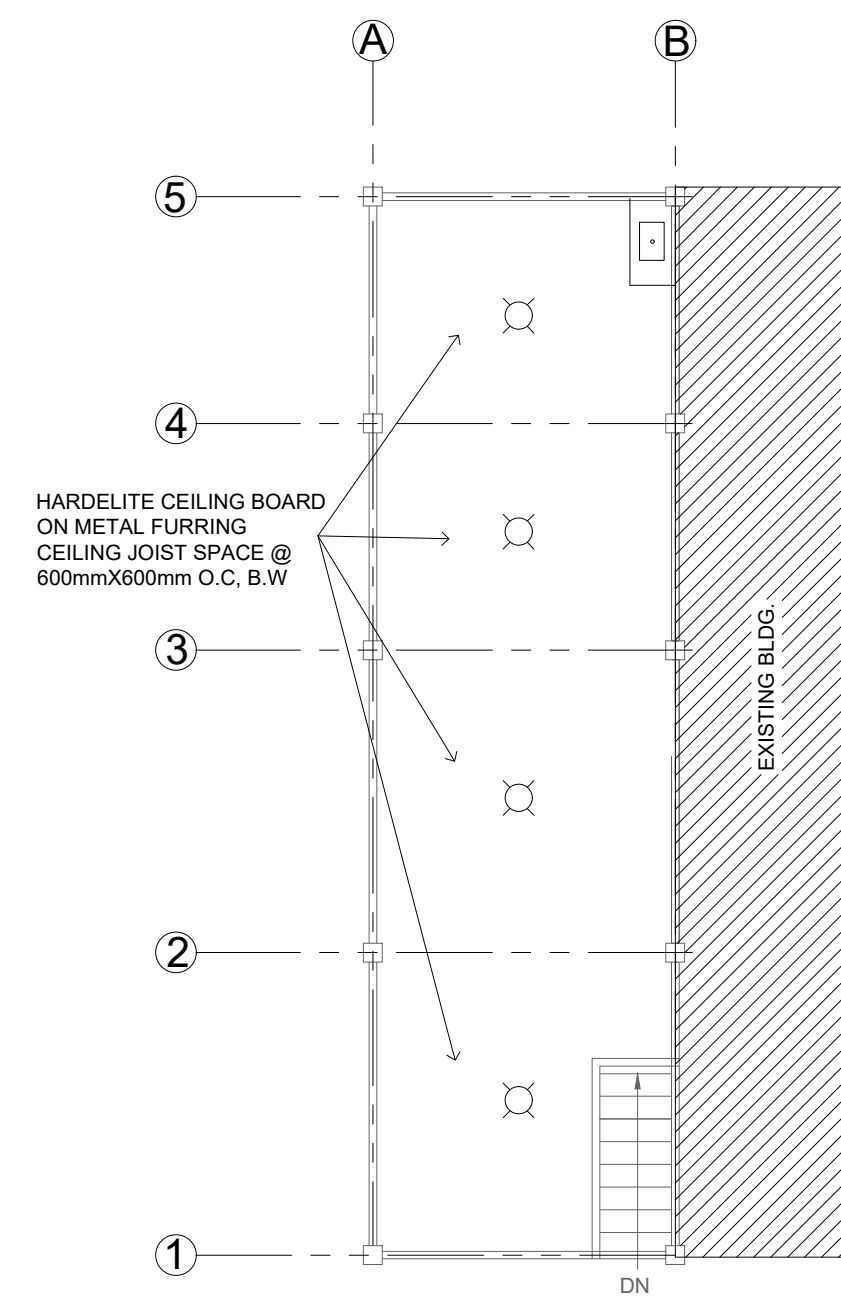
SECOND FLOOR FRAMING PLAN
SCALE: 1:100 M.



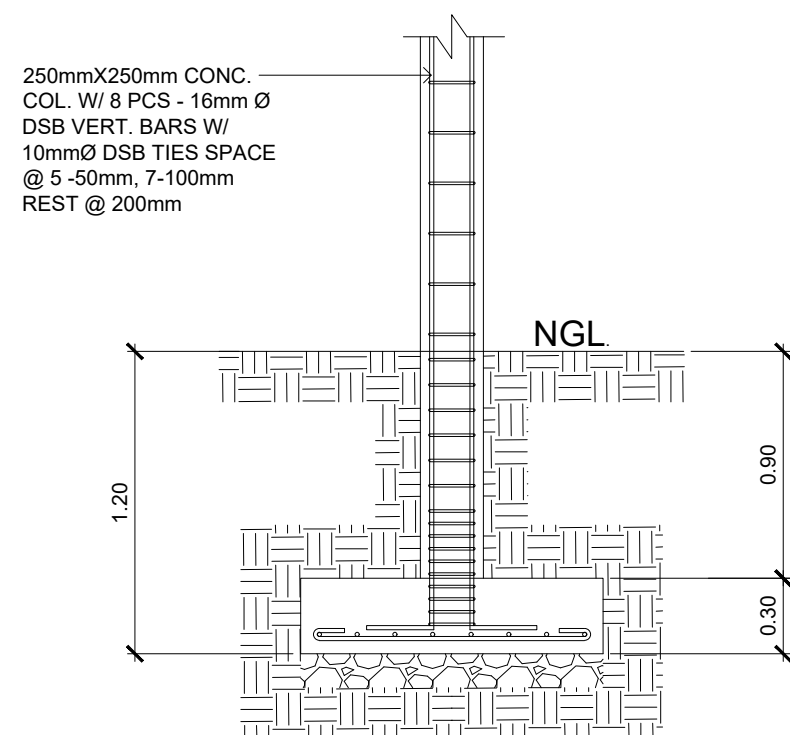
ROOF FRAMING PLAN
SCALE: 1:100 M.



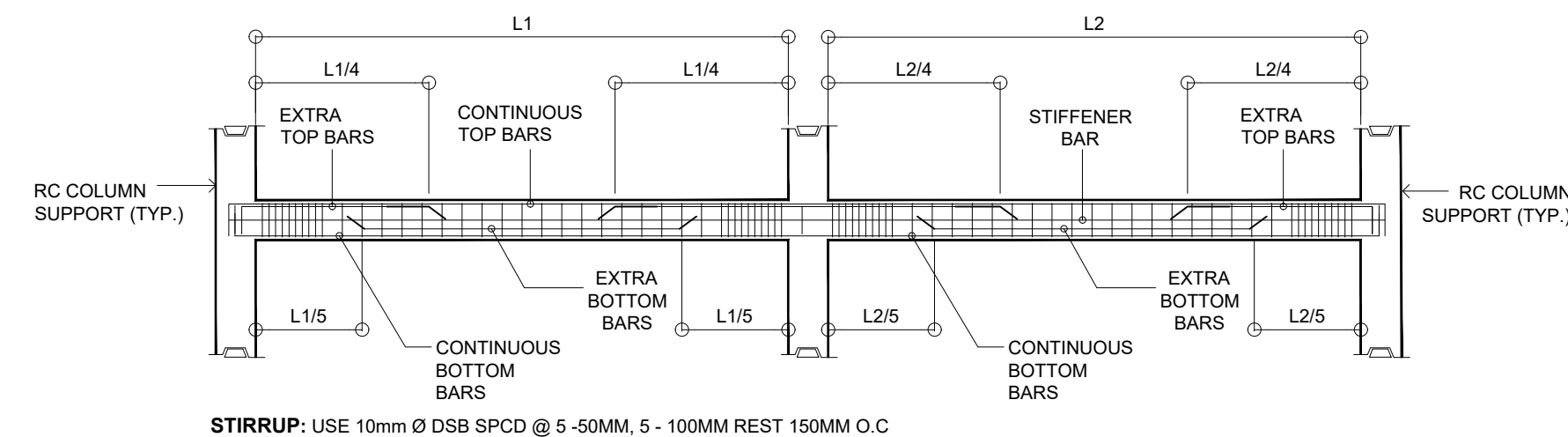
ROOF PLAN
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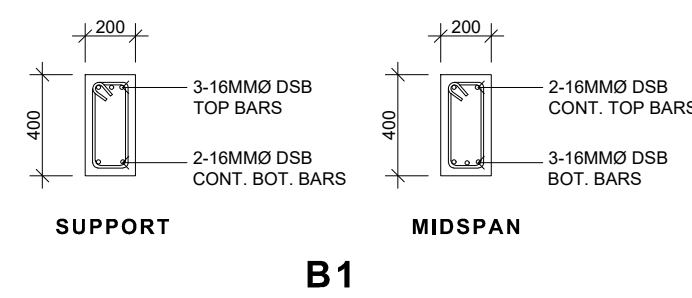
SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1:100 M.



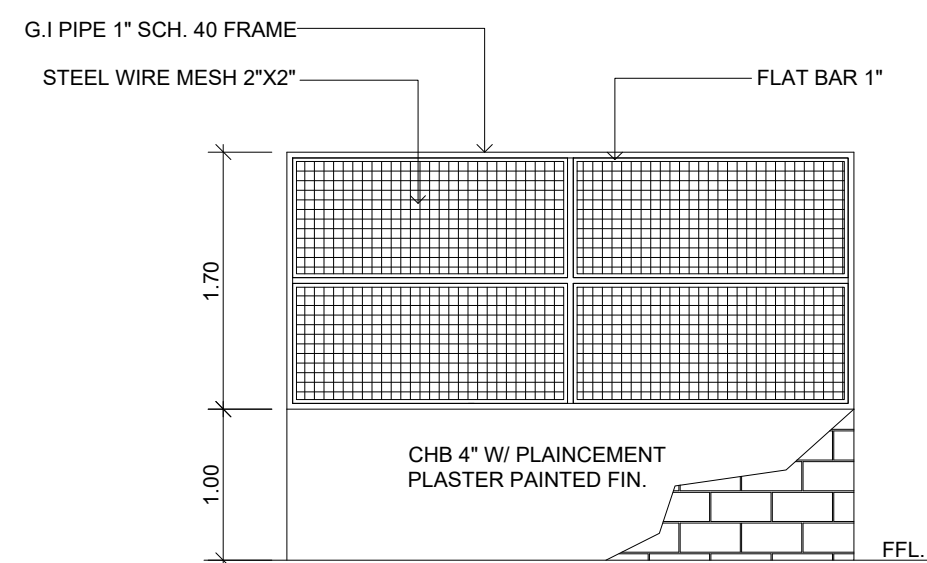
C1/F1 SECTION DETAILS
SCALE: 1:100 M.



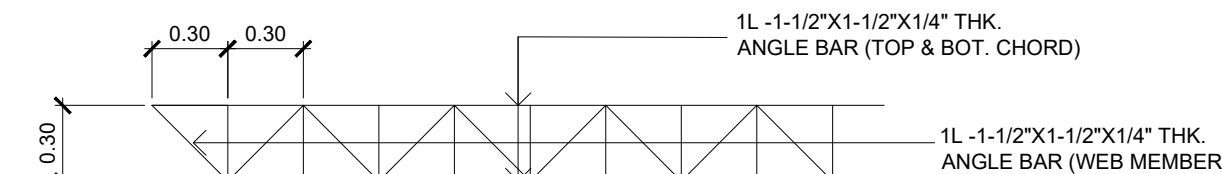
TYPICAL BEAM REINFORCEMENT DETAILS
SCALE: NTS.



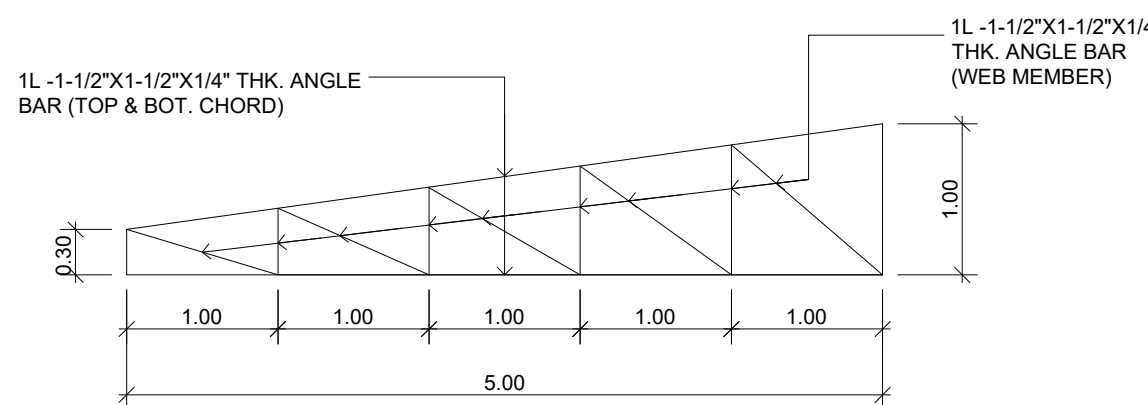
BEAM SECTION DETAILS
SCALE: 1:30 M.



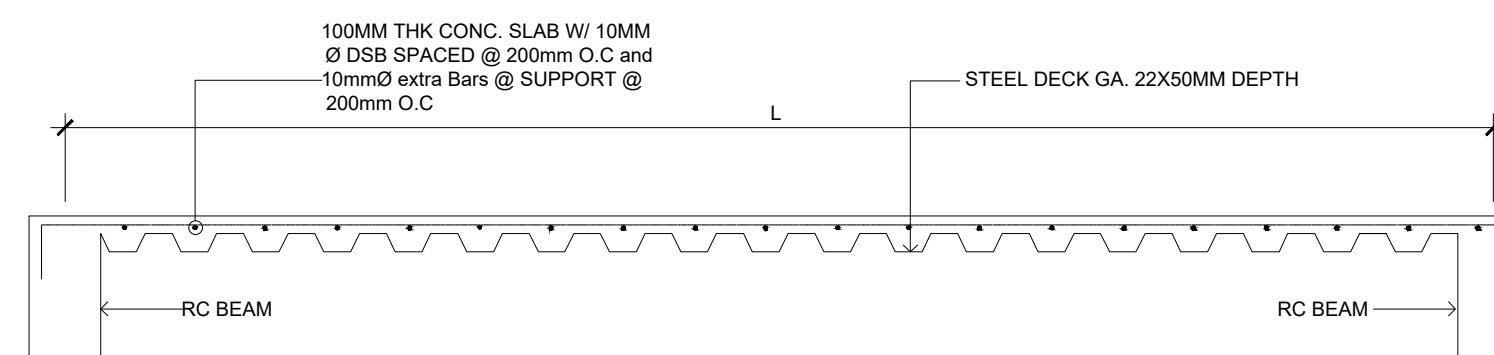
WIRE MESH DETAILS
SCALE: 1:70 M.



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



HT-1 DETAILS
SCALE: 1:50 M.

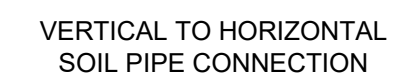
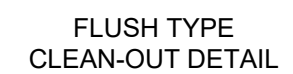


SLAB (S1) DETAILS
SCALE: 1:70 M.

1. GRADES OF HORIZON PIPINGS
RUN ALL HORIZONTAL IN PERFECT ALIGNMENT AND AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
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
3. PROHIBITED FITTINGS
NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL AND WASTE LINES.
THE DRILLING AND TIE-PIPING
OF HOUSE DRAIN, WASTE OR BEND PIPES AND USED OF SUBTLE HUB AND BEND ARE PROHIBITED.
4. 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 FEET (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.
5. THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
6. 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.
7. NO SEPTIC VAULT SHALL BE CONSTRUCTED UNDER THE BUILDING.
8. ALL PLUMBING WORKS SHALL BE UNDER THE SUPERVISION OF A LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.



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



SPECIFICATION:

1. 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.
2. THE ELECTRICAL SERVICE POWER IS 1 - PHASE, 2- WIRE, 230 V AC, 60 Hz
3. 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
4. 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.
5. ALL OUTLET BOXES SHALL BE PVC.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSED OF USAGE.
7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. 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

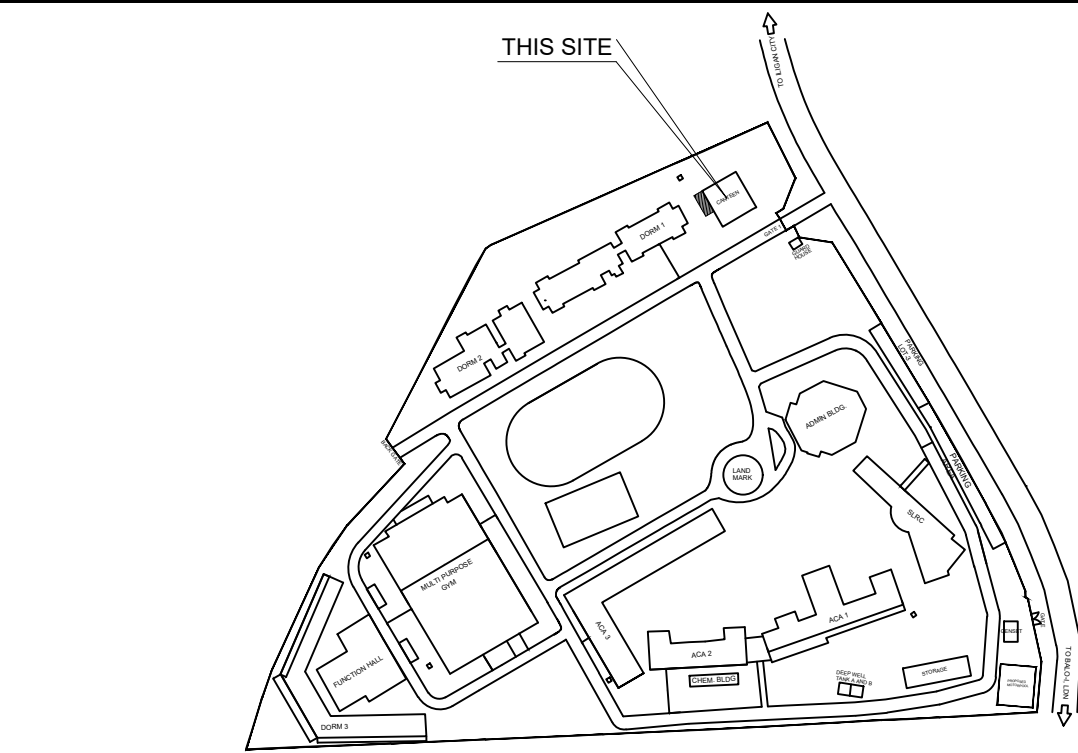
C. PANEL BOARD - 1.50 M ABOVE FINISH FLOOR

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 MM² THW WIRE	1 - 1C - 2.0 MM²	20MM dia.
C2	LIGHTING OUTLET	—	—	4	1440	220	6.54 A	20 A	2 - 1C - 5.5 MM² THW WIRE	1 - 1C - 2.0 MM²	20MM dia.
	TOTAL		8	4	2,240	220	10.18 A	30 A	2 - 1C - 8 MM² THW WIRE (2 AWG)	1 - 1C - 2.0 MM²	20MM dia.

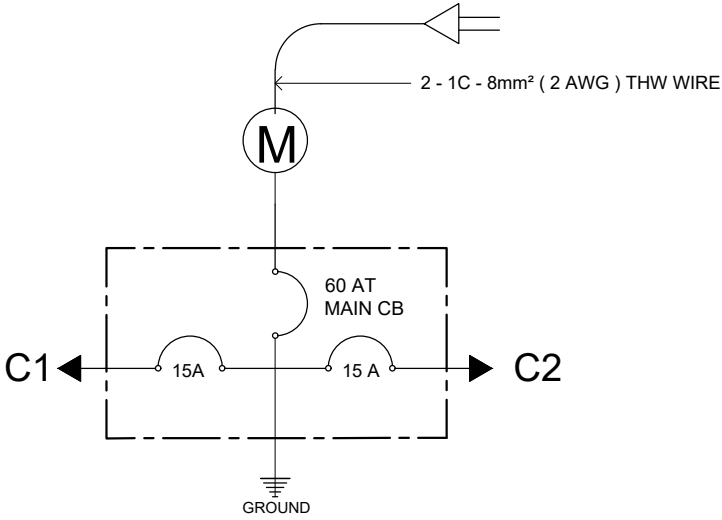
PANEL BOARD # 02			
A. SUB-CONNECTED LOADS OF TWO STOREY RESIDENTIAL BUILDING			
1	TOTAL CONNECTED LOADS	KW	2.24
2	CONNECTED	KVA	2.8
3	% DEMAND FACTOR	%	80
4	DEMAND	KVA	2.24
5	DEMAND AMPERES	AMPS	10.18

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

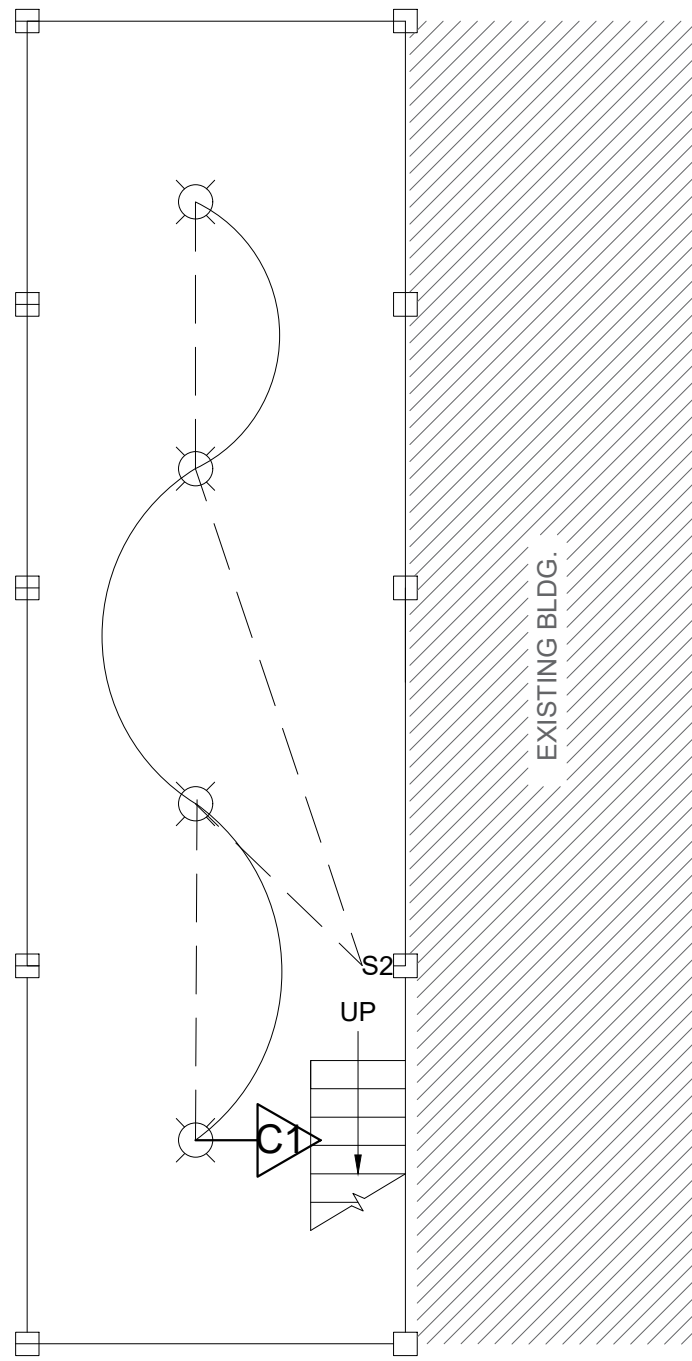
%DEMAND FACTOR = DEMAND LOAD KVA/ CONNECTED KVA X 100%
DEMAND LOAD KVA = CONNECTED KVA / DIVERSITY FACTOR 1.25 FOR 100% D.F
2.8 KVA / 1.25 = 2.24 KVA
50 % DEMAND FACTOR = 2.24 KVA / 2.8 X 100% = 80%
DEMAND AMPERES = 2.8 KVA X 0.8 / 0.22 =10.18 AMPS
GROUND CABLE SIZE:
10.18 AMPS. AT 20% = 2.036 AMPS
1-1C-3.5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



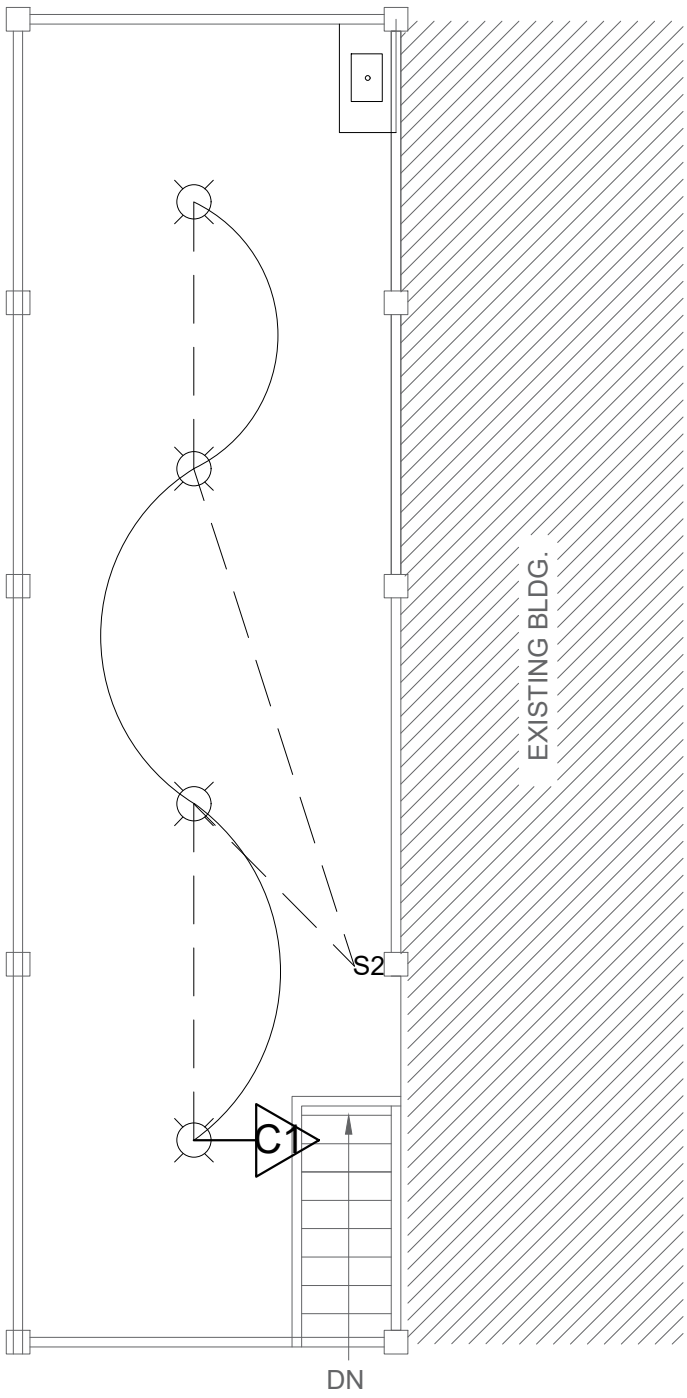
LOCATION PLAN



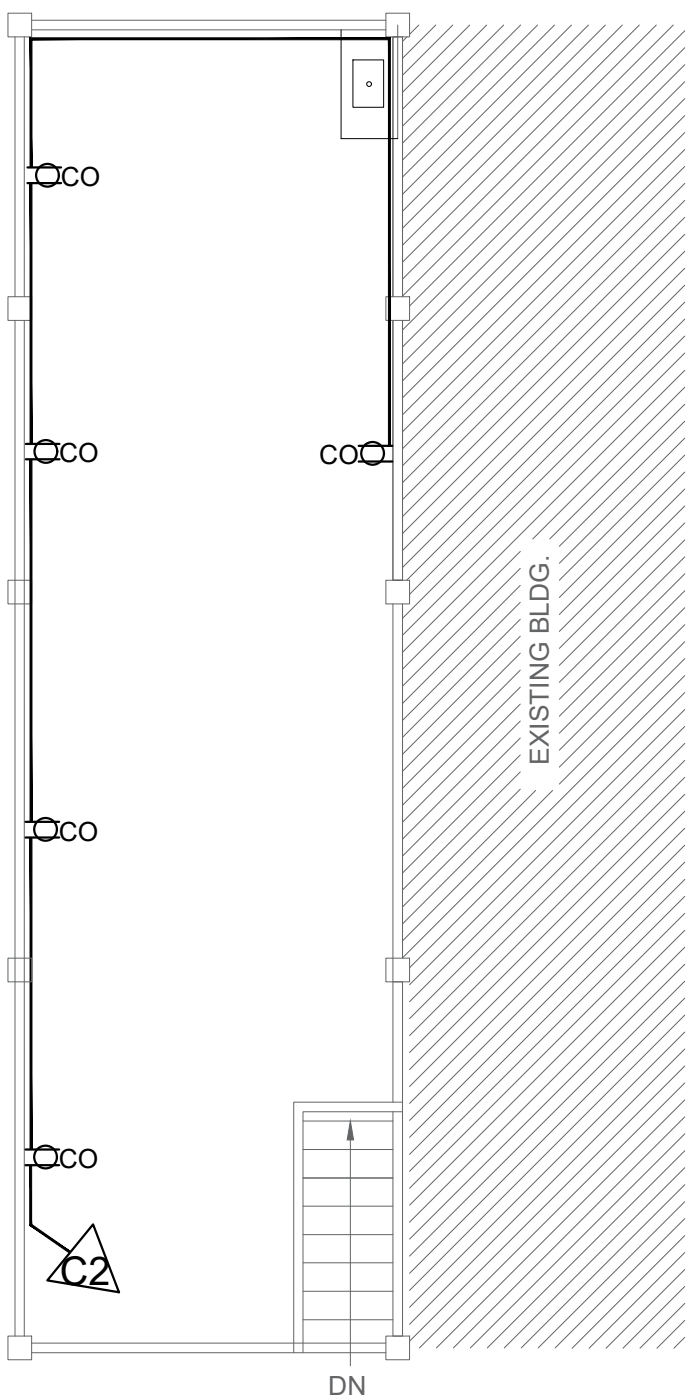
SINGLE LINE DIAGRAM
SCALE: NTS.



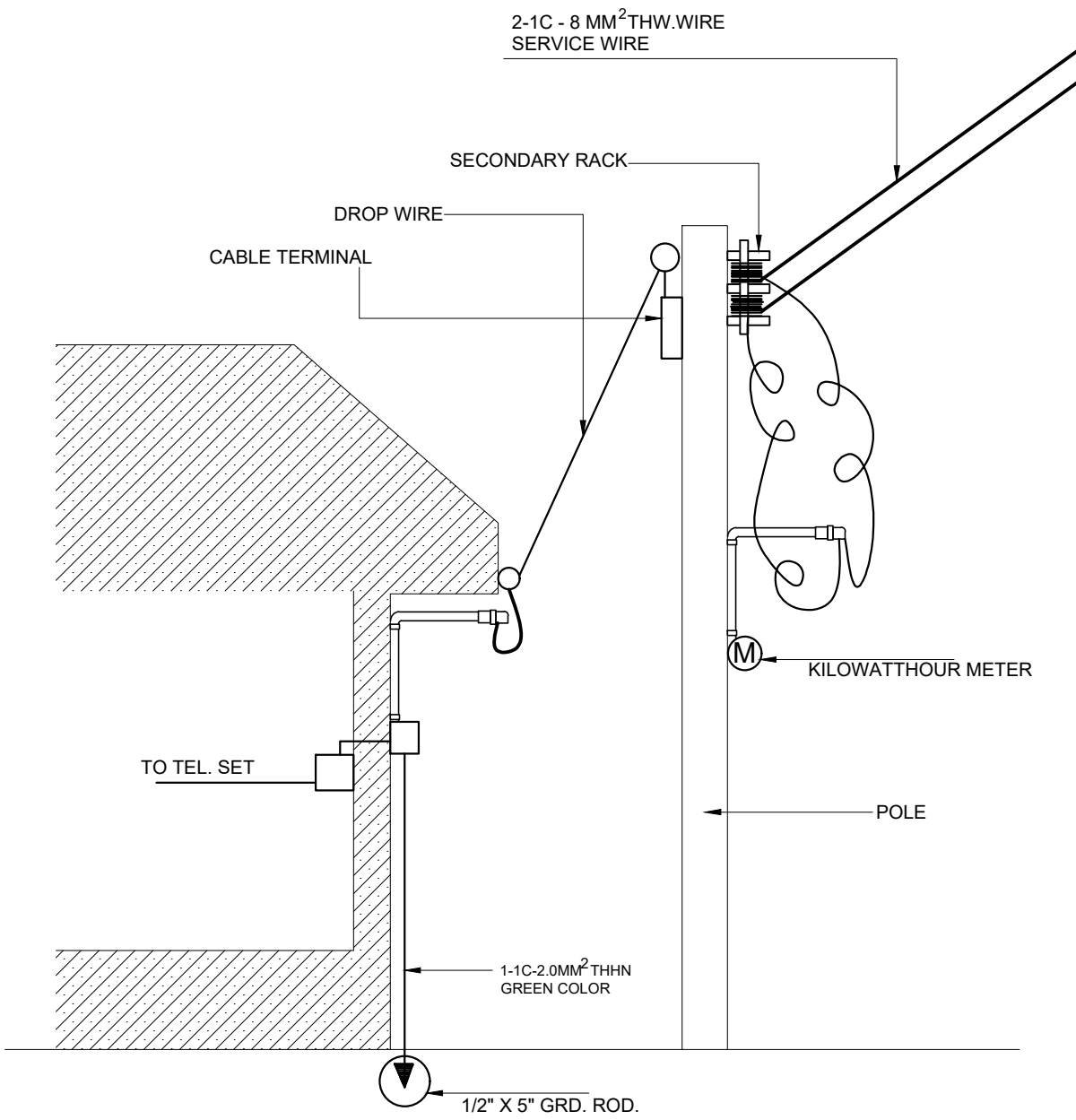
GROUND FLOOR LIGHTING LAY-OUT PLAN
SCALE: NTS.



SECOND FLOOR LIGHTING LAY-OUT PLAN
SCALE: NTS.



SECOND FLOOR POWER OUTLET LAY-OUT PLAN
SCALE: NTS.



TELEPHONE & ELECTRICAL SERVICE ENTRANCE DETAIL
SCALE: NTS.