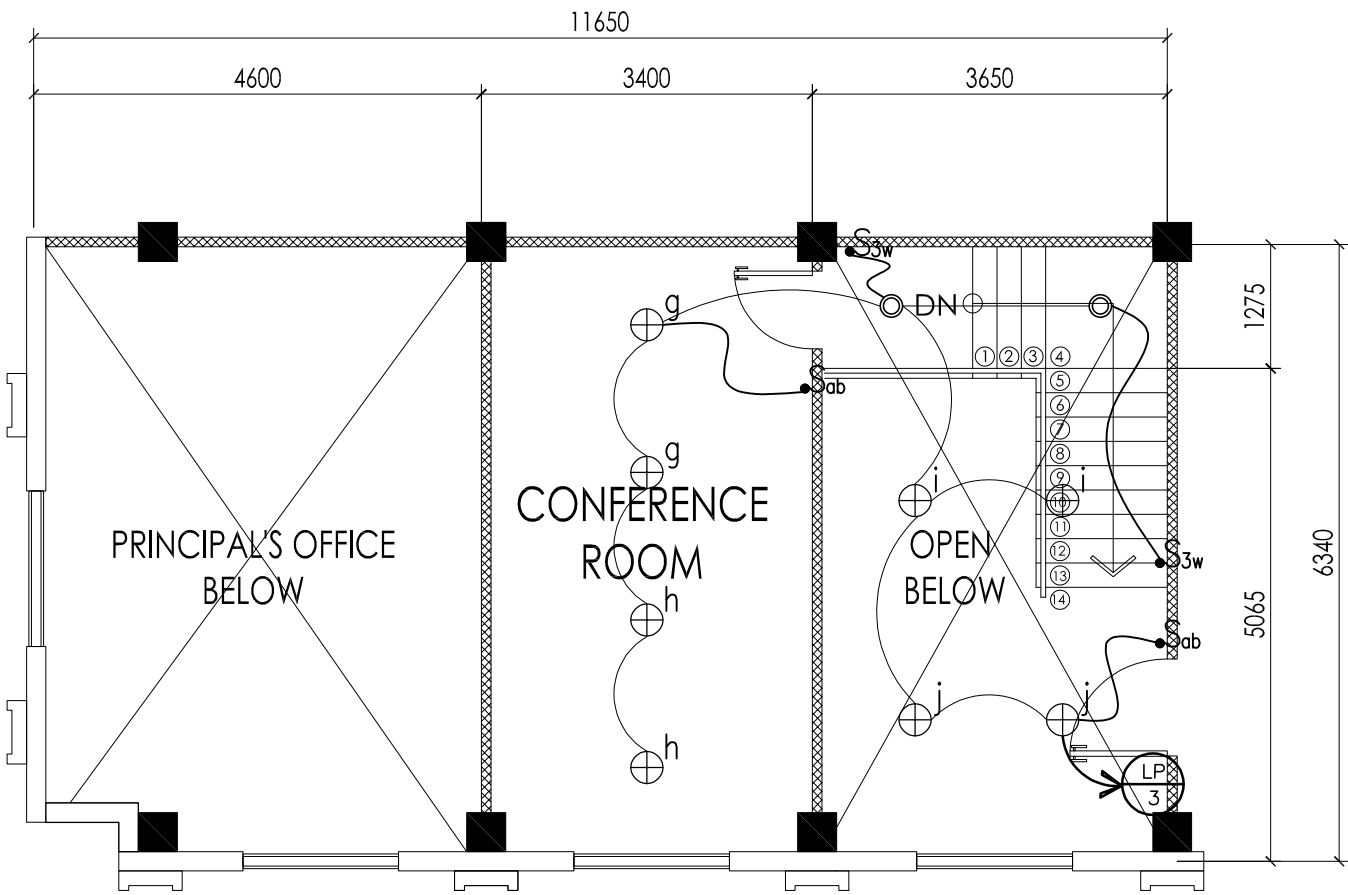


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LIGHTING LAYOUT
GROUND FLOOR PLAN

SCALE: 1:100

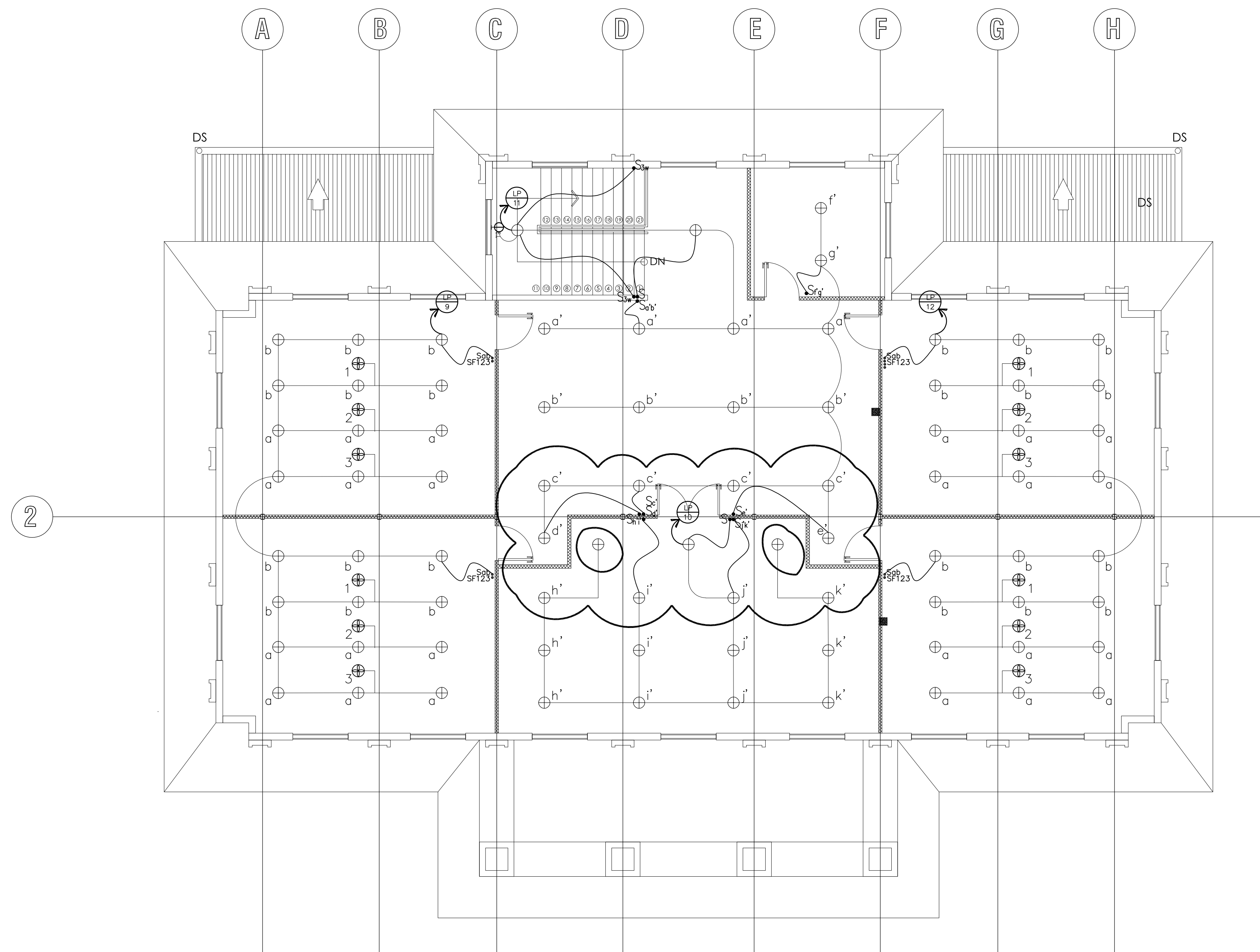


LIGHTINGS SPECIFICATION :	
	-24 W LED GLOBE PENDANT LIGHT FROSTED,IP40, DAY LIGHT,AC 85-265V 50/60Hz (VERIFY HEIGHT OR RECOMMENDATION OF PROJECT IN CHARGE)
	-LED 24W DOWNLIGHT,IP40, DAY LIGHT,RECESSED MOUNT,AC 85-265V 50/60Hz



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PROJECT TITLE: RESTORATION OF GABALDON SCHOOL BUILDING AT BAGUIO CENTRAL SCHOOL		PREPARED BY:	CHECKED BY:	REVIEWED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	APPROVED BY:	SHEET CONENT:	SHEET NO.:
PROJECT LOCATION: YANDOC STREET, BAGUIO CITY		JOHN PAUL LICARDO ELECTRICAL ENGINEER TECHNICAL ASSISTANT III, EFD	SIEGMUND SANCHEZ PROFESSIONAL ELECTRICAL ENGINEER TECHNICAL ASSISTANT IV, EFD	CARMINA AREVALO OIC- EXECUTIVE DIRECTOR NHCP	OSCAR G. CASAYSAY EXECUTIVE DIRECTOR NCCA	ANNABELLE R. PANGAN CHIEF EDUCATION FACILITIES DIVISION	EPIMACO V. DENSING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	SORAYA T. FACULO PhD, CESO VI ASSISTANT SCHOOL DIVISION SUPERINTENDENT OIC-OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT	1 E 6



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LIGHTING LAYOUT
SECOND FLOOR PLAN

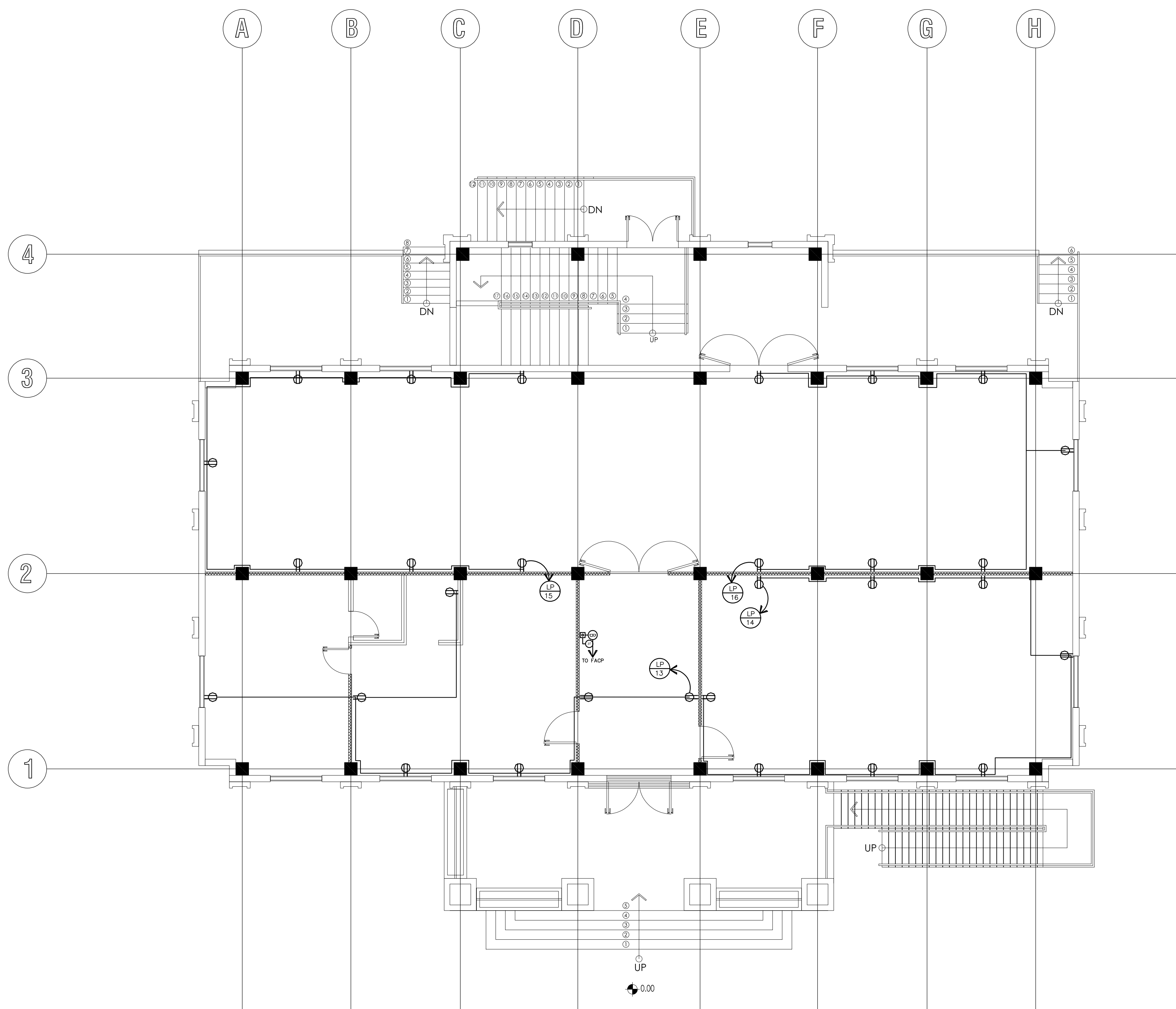
SCALE: 1:100

LIGHTINGS SPECIFICATION :	
	24 W LED GLOBE PENDANT LIGHT FROSTED,IP40, DAY LIGHT,AC 85-265V 50/60Hz (VERIFY HEIGHT OR RECOMMENDATION OF PROJECT IN CHARGE)
	-LED 24 W DOWNLIGHT,IP40, DAY LIGHT,RECESSED MOUNT,AC 85-265V 50/60Hz



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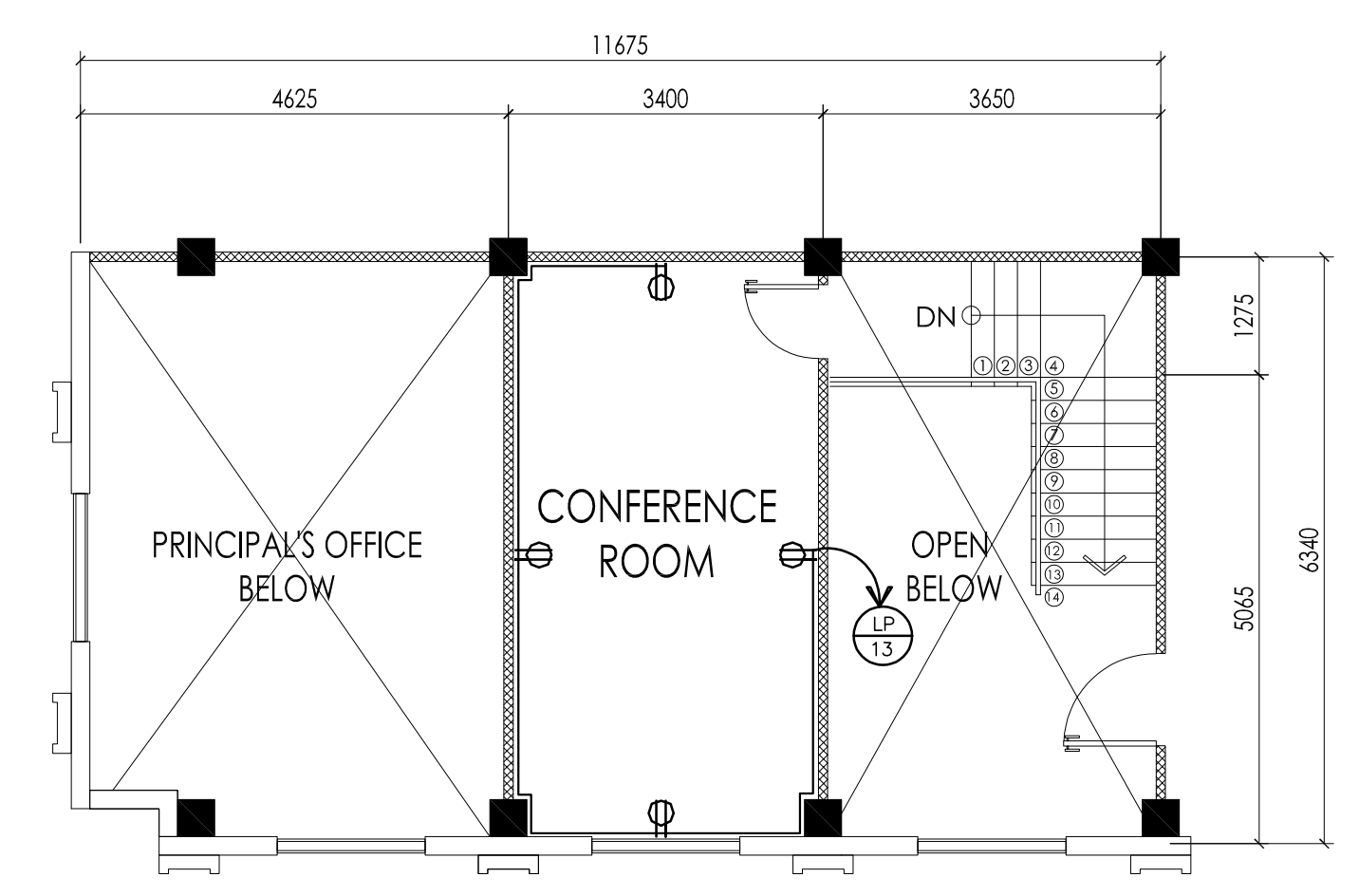
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RESTORATION OF GABALDON SCHOOL BUILDING AT BAGUIO CENTRAL SCHOOL	JOHN PAUL LICARDO ELECTRICAL ENGINEER TECHNICAL ASSISTANT III, EFD	SIEGMUND SANCHEZ PROFESSIONAL ELECTRICAL ENGINEER TECHNICAL ASSISTANT IV, EFD	CARMINA AREVALO OIC- EXECUTIVE DIRECTOR NHCP	OSCAR G. CASAYSAY EXECUTIVE DIRECTOR NCCA	ANNABELLE R. PANGAN CHIEF EDUCATION FACILITIES DIVISION	EPIMACO V. DENSING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	SORAYA T. FACULO PhD, CESO VI ASSISTANT SCHOOL DIVISION SUPERINTENDENT OIC-OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT	"AS SHOWN"
PROJECT LOCATION:								
YANDOC STREET, BAGUIO CITY								



**POWER LAYOUT
GROUND FLOOR PLAN**

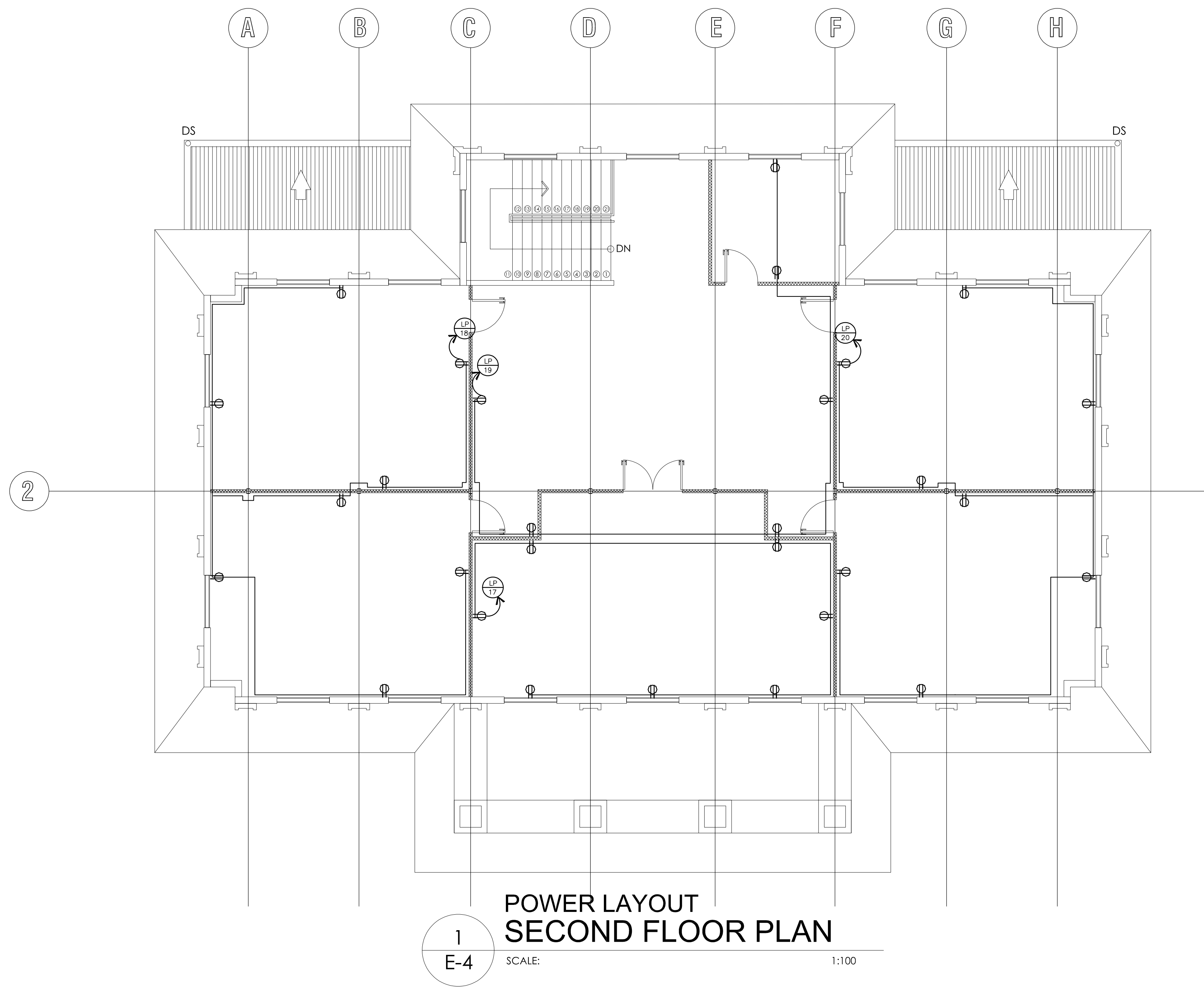
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SCALE: 1:100



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PROJECT LOCATION: YANDOC STREET, BAGUIO CITY								



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PROJECT TITLE:
RESTORATION OF GABALDON SCHOOL
BUILDING AT BAGUIO CENTRAL SCHOOL

PROJECT LOCATION:
YANDOC STREET, BAGUIO CITY

PREPARED BY:

JOHN PAUL LICARDO
ELECTRICAL ENGINEER
TECHNICAL ASSISTANT III, EFD

CHECKED BY:

SIEGMUND SANCHEZ
PROFESSIONAL ELECTRICAL ENGINEER
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REVIEWED BY:

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OIC- EXECUTIVE DIRECTOR NHCP

OSCAR G. CASAYSAY
EXECUTIVE DIRECTOR NCCA

RECOMMENDING APPROVAL:

ANNABELLE R. PANGAN
CHIEF
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APPROVED BY:

EPIMACO V. DENSING III
UNDERSECRETARY FOR SCHOOL
INFRASTRUCTURE AND FACILITIES

APPROVED BY:

SORAYA T. FACULO PhD, CESO VI
ASSISTANT SCHOOL DIVISION SUPERINTENDENT
OIC-OFFICE OF THE SCHOOLS DIVISION SUPERINTENDENT

SHEET CONENT:

"AS SHOWN"

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GENERAL NOTES

- 1.ALL ELECTRICAL WORKS HEREIN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), EXISTING LOCAL ORDINANCES, RULES, AND REGULATIONS OF THE UTILITY COMPANY.
- 2.THE ELECTRICAL SERVICE POWER IS 1–PHASE, 2–WIRE + GROUND 230VAC, 60HZ
- 3.WIRING METHOD SHALL BE AS FOLLOWS:

a.FEEDERS AND RISER – IMC/RSC

b.LIGHTING, POWER RECEPTACLE – PVC SCHEDULE 40 BRANCH CKT. & AUXILIARY
- 4.ALL MATERIALS (EQUIPMENT AND DEVICES) TO BE INSTALLED BY THE CONTRACTOR SHALL BE NEW AND SHALL BEAR THE CERTIFICATION MARK (PHILIPPINE STANDARD QUALITY MARK OR IMPORT COMMODITY CLEARANCE) ISSUED BY THE DEPARTMENT OF TRADE AND INDUSTRY–BUREAU OF PRODUCT STANDARDS (DTI–BPS) FOR SPECIFIC PURPOSES
- 5.STANDARD TYPES OF ACCESSORIES, SPlicing DEVICES, TERMINATION, AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.
- 6.PROVIDE A PULLBOX AS NEEDED TO FACILITATE INSERTION AND WITHDRAWAL OF WIRES WITHOUT ABRASION, CONDUIT BENDS SHALL BE MADE IN SUCH A WAY THAT THE INTERNAL DIAMETER IS NOT REDUCED.
- 7.ANY DISCREPANCY IN LOCATION AND RATING OF EQUIPMENT AND APARATUS SHALL BE VERIFIED WITH THE ENGINEER/OWNER OR ANY OF HIS REPRESENTATIVES AND CHANGES SHALL BE MADE ACCORDINGLY.
- 8.ALL ELECTRICAL WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.
- 9.ALL PANELS, BREAKERS, AND SWITCHES MUST BE APPROPRIATELY TAGGED WITH FEEDERS/PANELS/BREAKERS SUPPLYING THEM.
- 10.GROUNDING CONNECTION SHOULD BE DONE BY EXOTHERMIC WELDING CONNECTION OR OTHER APPROVED SIMILAR PROCESS, MINIMUM GROUND RESISTANCE SHOULD BE 5 OHMS.
- 11.NEW BRANCH CIRCUITS SHALL BE LABELED AT THE ORIGINATING PANEL BOARD, ON THE PANEL BOARD LEGEND. THEY SHALL BE ALSO LABELED AT THE LOAD END ON THE RECEPTACLE, LIGHT SWITCH, OR THE PIECE OF EQUIPMENT (E.G. MOTOR STARTER, SAFETY SWITCH).
- 12.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







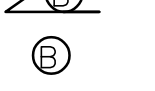
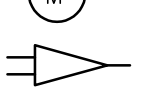
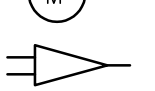




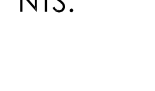

c.PANELBOARD – 1.80 M ABOVE FINISH FLOOR

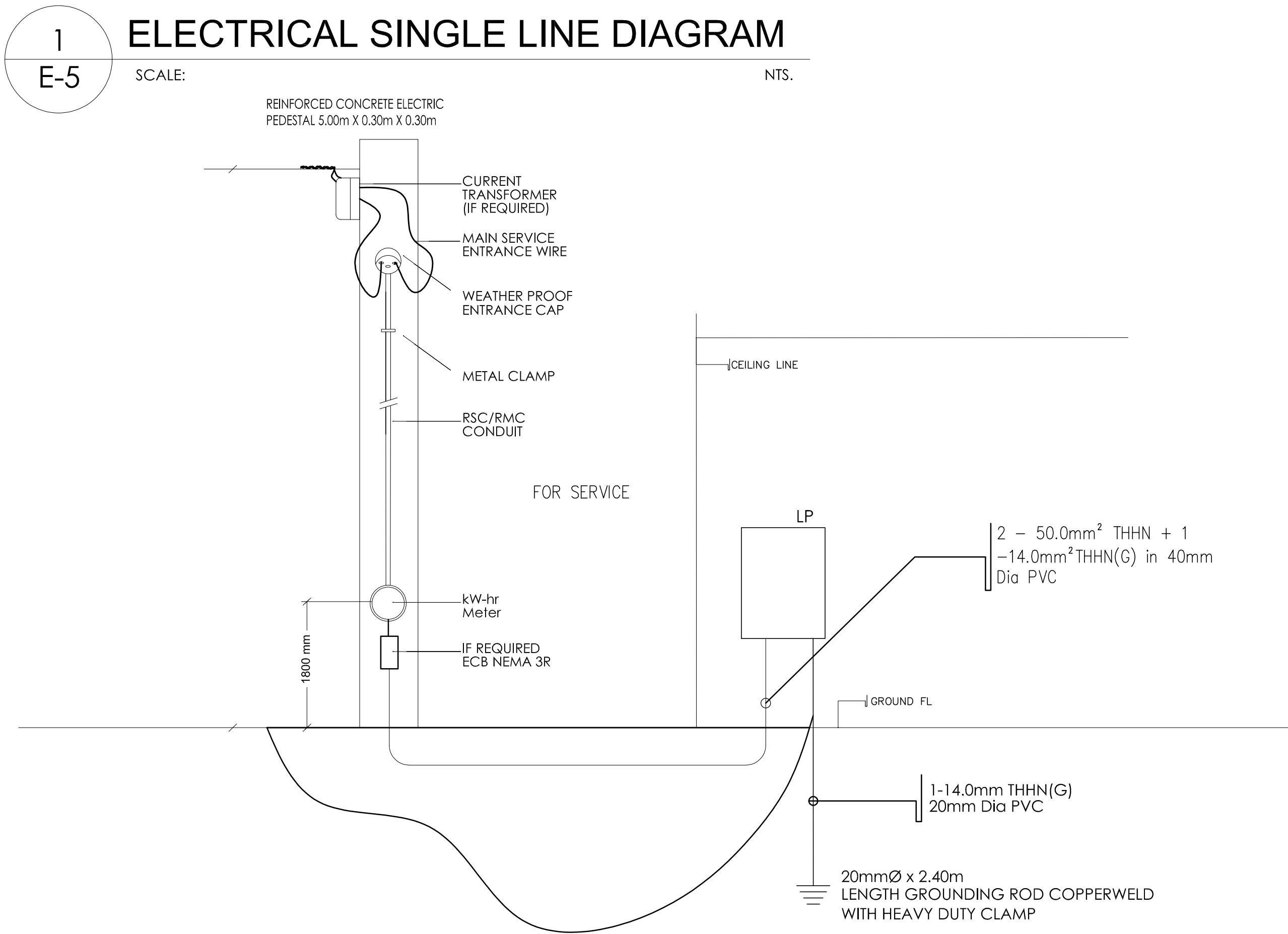
d.FIRE ALARM STATION OUTLET – 1.50 M. ABOVE FINISH FLOOR

e.PUSH BUTTON OUTLET – 1.20 M ABOVE FINISH FLOOR

f.FIRE ALARM & VIBRATING BELL – 0.30 M BELOW CEILING LINE

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
Sa	– ONE GANG DEVICE SWITCH	 WP	– WEATHERPROOF DUPLEX CONVENIENCE OUTLET,UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
Sab	– TWO GANG DEVICE SWITCH	 EL	– EMERGENCY LIGHT OUTLET, SIMPLEX
Scde	– THREE GANG DEVICE SWITCH	 DPA 1	– CIRCUIT HOMERUN
3WS	– THREE WAY ONE GANG DEVICE SWITCH	 ☒	– ENCLOSED CIRCUIT BREAKER
SF	– FAN CONTROL SWITCH	 FA	– FIRE ALARM CONTROL PANEL
	– ORBIT FAN OUTLET	 F	– FIRE ALARM STATION OUTLET
	– RACEWAY CONDUIT CONCEALED IN CEILING	 	– VIBRATING BELL OUTLET
	– RACEWAY CONDUIT CONCEALED UNDER FLOOR	 B	– FIRE ALARM BELL
	– PANELBOARD, MARKED AS "LP"	 M	– SERVICE METER
	– CKT. BREAKER, RATING AS INDICATED		– SERVICE ENTRANCE
	– DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT		



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RESTORATION OF GABALDON SCHOOL BUILDING AT BAGUIO CENTRAL SCHOOL								
PROJECT LOCATION:								
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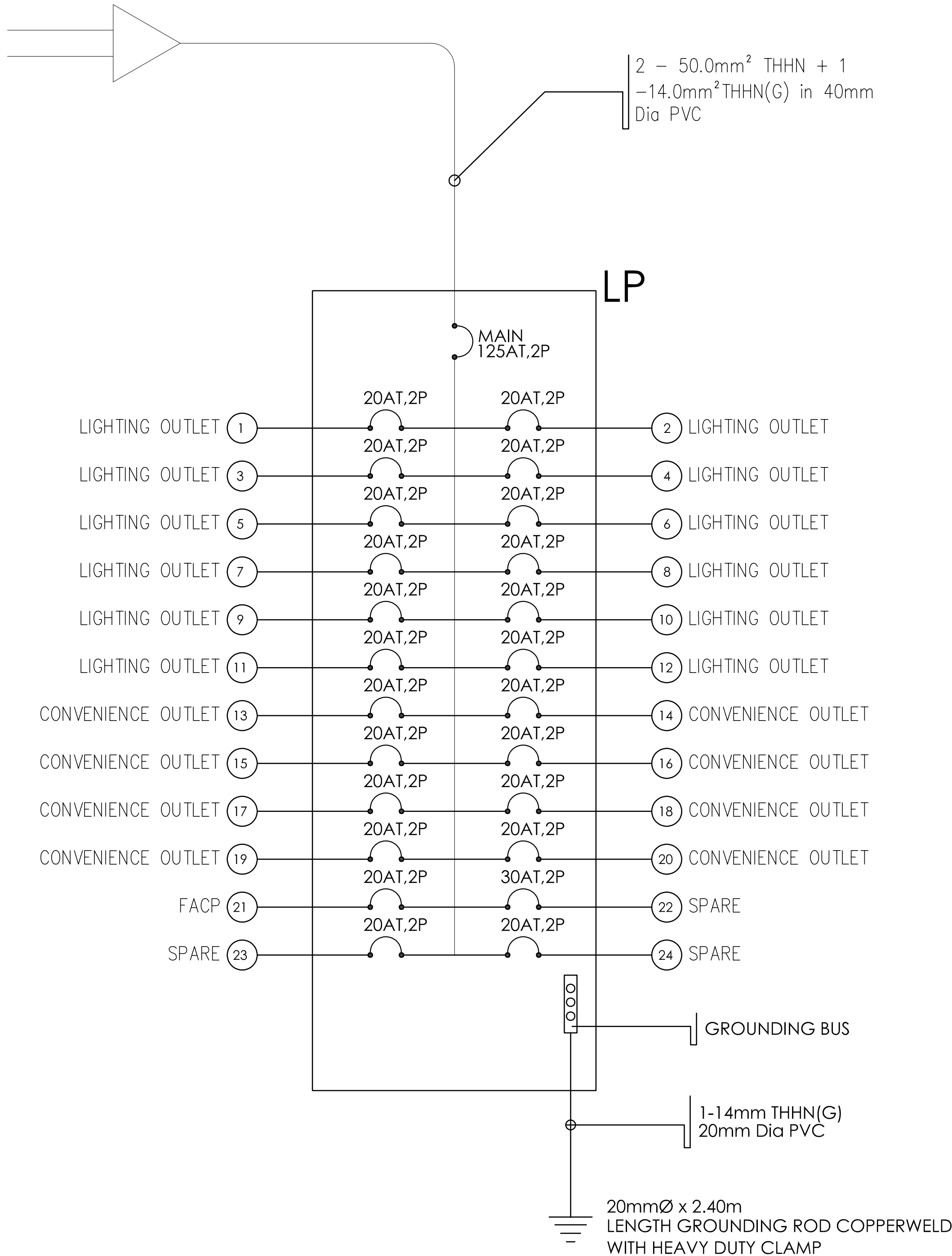
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ELECTRICAL RISER DIAGRAM

SCALE: NTS.

SERVICE ENTRANCE:
1 PH, 230V,60HZ



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SCHEDULE OF LOADS

SCALE: NTS.

PANEL BOARD TYPE				SCHEDULE OF LOADS				MAIN FEEDER SIZE				MAIN BREAKER SIZE				
PANEL LOCATION		LOBBY						X	50.0 mm²	R,Y,BK	AT	125		A		
ENCLOSURE TYPE		NEMA 1						G	14.0 mm²	GREEN	AF	250		A		
VOLTAGE SYSTEM		230						SETS	1	PC	P	2		P		
PHASE SYSTEM		1PH, 60HZ						TYPE	THHN/THWN		KAIC	22	P			
CKT. NO	DESCRIPTION	V	VA	AMPERES				CIRCUIT BREAKER			WIRE SIZE				CONDUIT SIZE (mmø)	
				AB	BC	CD	3ø	AT	AF	P	X		G			
1	LIGHTING OUTLET	230	680	2.37				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
2	LIGHTING OUTLET	230	1000	3.48				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
3	LIGHTING OUTLET	230	1000	3.48				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
4	LIGHTING OUTLET	230	1500	5.22				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
5	LIGHTING OUTLET	230	900	3.13				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
6	LIGHTING OUTLET	230	1200	4.17				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
7	LIGHTING OUTLET	230	1500	5.22				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
8	LIGHTING OUTLET	230	1100	0.00				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
9	LIGHTING OUTLET	230	2880	10.02				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
10	LIGHTING OUTLET	230	1300	4.52				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
11	LIGHTING OUTLET	230	1880	6.54				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
12	LIGHTING OUTLET	230	2880	10.02				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
13	CONVENIENCE OUTLET	230	1980	6.89				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
14	CONVENIENCE OUTLET	230	1440	5.01				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
15	CONVENIENCE OUTLET	230	1260	4.38				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
16	CONVENIENCE OUTLET	230	1260	4.38				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
17	CONVENIENCE OUTLET	231	1260	4.36				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
18	CONVENIENCE OUTLET	232	1440	4.97				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
19	CONVENIENCE OUTLET	233	1080	3.71				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
20	CONVENIENCE OUTLET	234	1440	4.92				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
21	FACP	230	900	1.96				20	50	2	2-	3.5mm²	1-	3.5mm²	20	PVC
22	SPARE	230	1500	6.52				30	50	2						
23	SPARE	230	1000	4.35				20	50	2						
24	SPARE	230	1000	4.35				20	50	2						
TOTAL CONNECTED LOAD			33380	113.95	0.00	0.00										
FOR FEEDER CURRENT				SIZE FOR MAIN FEEDER						FOR MAIN BREAKER SIZE						
3PH + 1PH LOAD = 113.96 A				X				G		125			AT			
25 % OF HIGHEST CONTINUOUS LOAD = 2.50 A				2-	50.0 mm²		1-	14.0 mm²		250			AF			
HIGHEST CURRENT LOAD = 10.02 A				NO. OF SET				1		2			P			
DEMAND FACTOR = 80%				SIZE OF CONDUIT						22			KAIC			
PH	FEEDER	= 93.17 A		40				PVC		MCCB, BOLT-ON						
1	MAIN PROTECTION	= 105.19 A														



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BUILDING AT BAGUIO CENTRAL SCHOOL

PROJECT LOCATION:
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PREPARED BY:

JOHN PAUL LICARDO
ELECTRICAL ENGINEER
TECHNICAL ASSISTANT III, EFD

CHECKED BY:

SIEGMUND SANCHEZ
PROFESSIONAL ELECTRICAL ENGINEER
TECHNICAL ASSISTANT IV, EFD

REVIEWED BY:

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OIC- EXECUTIVE DIRECTOR NHCP

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RECOMMENDING APPROVAL:

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ASSISTANT SCHOOL DIVISION SUPERINTENDENT
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SHEET CONENT:

"AS SHOWN"

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