



SECTION 02: ELECTRIC PLANS.

PROJECT:

SUPPLY AND INSTALL OF GENERATOR FOR
CHILDREN CENTER FOR AUTISM
in ADEN.

FUNDED BY:

WORLD BANK GROUP.  **WORLD BANK GROUP**

OCT, 2019.

DRAWING LIST:-

NO	DRAWING TITLE
S4 - 01	MAIN NOTES.
S4 - 02	CABLE ROOT AND DG ROOMS PLAN DETAILS.
S4 - 03	UNDERGROUND CABLE TRENCH AND EARTHING DETAILS.
S4 - 04	GENERATOR ROOM PLAN DETAILS.
S4 - 05	DG Room DB
S4 - 06	GENERATOR ROOM AIR CONDITIONING AND FIRE ALARM SYSTEMS

REMARKS: -

1. THE LAYOUT DRAWINGS DO NOT SHOW ALL THE SYSTEMS, ITEMS, OR ACCESSORIES COVERED UNDER THE SCOPE OF ELECTRICAL WORKS TO BE EXECUTED THE LAYOUT DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT OR SPECIALIST DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE FROM THE LAYOUT DRAWINGS WORK ACCORDING TO ARCHITECTURAL OR ELECTRICAL DETAILS UNLESS OTHERWISE AUTHORIZED.
3. ALL EQUIPMENT LAYOUTS ARE PROVISIONAL. FINAL LAYOUT SHALL BE DETERMINED BY THE CONTRACTOR FROM THE CONSTRUCTION/SHOP DRAWINGS AND AFTER COORDINATION WITH OTHER TRADES.
4. THE SIZE OF CONDUITS AND/OR CABLE TRAYS IS IN GENERAL NOT SHOWN ON DRAWINGS. THE SIZE OF ALL CONDUITS AND/OR CABLE TRAYS SHALL BE SELECTED BY THE CONTRACTOR IN ACCORDANCE WITH BOQ, REGULATIONS AND/OR STANDARDS AND WILL BE FUNCTION OF THE NUMBER AND SIZE OF THE RESPECTIVE CONDUCTORS.
5. PERFORATED CABLE TRAY SHALL BE

FIXED AND COVER PROPERLY AND SHALL NOT FIXED DIRECT TO ROOF SLAB.

6. TEARTH CONTINUITY CONDUCTORS ARE NOT INDICATED ON THE DRAWINGS, BUT SHALL BE RUN WITH ALL CIRCUITS IN ACCORDANCE WITH SPECIFICATIONS, REGULATIONS AND/OR STANDARDS.
7. THE COLOR CODE FOR A FOUR WIRE CIRCUIT IS - ONE BLACK, - ONE RED, ONE BLUE AND ONE YELLOW ANY CONDUCTOR INTENDED FOR GROUNDING PURPOSE SHALL BE GREEN WITH YELLOW STRIPE.
8. FOR EXACT QUANTITY, TYPE & LOCATION OF ELECTRICAL OUTLETS REFER TO INTERIOR DESIGN DOCUMENT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING THE NO. OF CIRCUIT BREAKERS, RATING, AND WIRING ACCORDING TO MANUFACTURER DATA WITHOUT ANY EXTRA COST.
10. ALL DISCONNECT SWITCHES FOR A/C SHALL BE ADJACENT TO THE UNIT..
11. CONTRACTOR SHALL PROVIDE MATCHING PLUG IN FOR ALL SPECIAL OUTLETS.
12. ALL OUTDOOR WIRING ACCESSORIES SHALL BE WEATHER

PROOF TYPE.

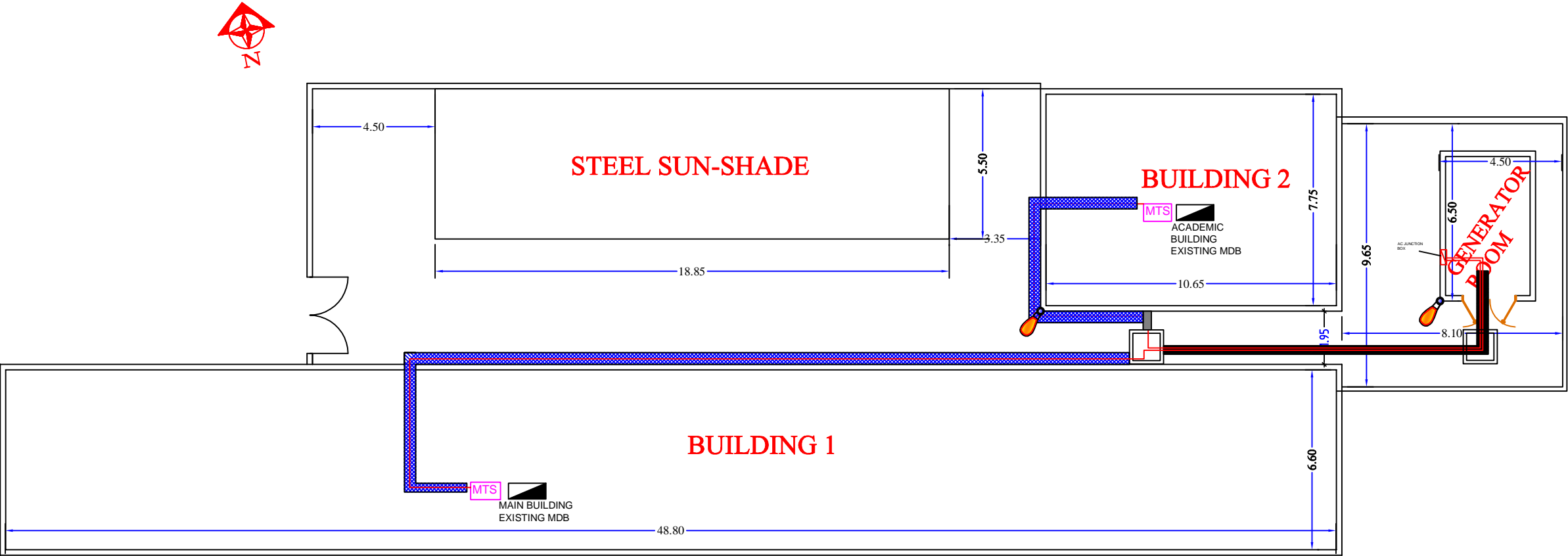
13. FOR GROUND-FAULT CIRCUIT INTERRUPT (GFCI) REFER TO PLANS AND PANEL SCHEDULES.
14. THE MINIMUM SEPARATE DISTANCE BETWEEN LOW CURRENT SYSTEMS & LOW VOLTAGE POWER CABLES IS 300MM.
15. ALL C.BS WITH FRAME RATING LARGER THAN 100A SHOULD HAVE ADJUSTABLE THERMAL OVERLOAD SETTING.
16. CONTRACTOR SHALL PROVIDE CONTROL CONDUIT & WIRING AS PER OPERATIONAL REQUIREMENTS SHOWN ON HVAC AND PLUMBING DRAWING.
17. GROUNDING TO LOW CURRENT SYSTEMS SHALL BE SEPARATE GROUNDING PIT AND CONNECTED TO BUILDING GROUNDING NETWORK.
18. THE DISTANCE BETWEEN EARTH PIT SHALL BE DOUBLE OR MORE THAN LENGTH OF EARTHING ROD.
19. THE DIMENSION OF ELECTRICAL PANELS AND EQUIPMENT'S SHALL BE AS PER APPROVED FABRICATOR / SUPPLIER SHOP DRAWING.

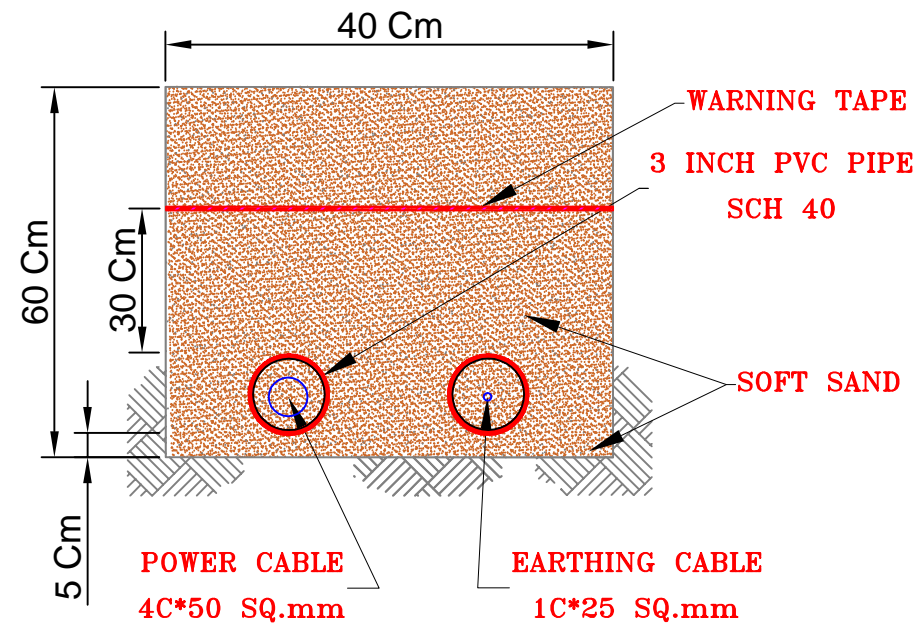
REMARKS:

- 1. ALL DIMENSIONS AND ELEVATIONS ARE IN CENTIMETERS AND METERS RESPECTIVELY, UNLESS OVER WISE MENTIONED.
- 2. ALL DIMENSIONS TO BE CHECKED AND CONFIRMED ON SITE BEFORE COMMENCEMENT OF ANY WORK.
- 3. ANY DISCREPANCY TO BE REPORTED TO THE UNOPS SITE ENGINEER/ PROJECT MANAGER PROMPTLY BEFORE PROCEEDING.
- 4. ALL OUTDOOR OUTLETS, SOCKET OR WIRING ACCESSORIES SHALL BE WEATHER PROOF TYPE.
- 5. ALL DISTANCE BETWEEN SYSTEM COMPONENTS INSIDE BATTERY ROOM TO BE DISTRIBUTE AS PER MANUFACTURE INSTALLATION INSTRUCTION.

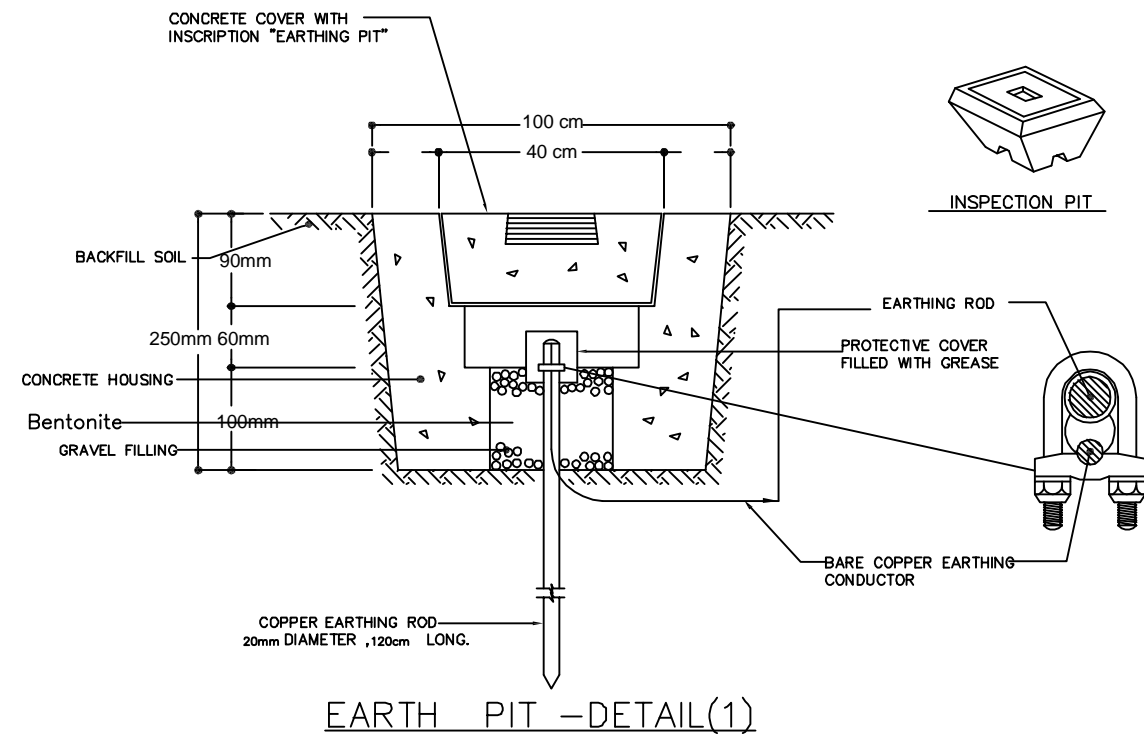
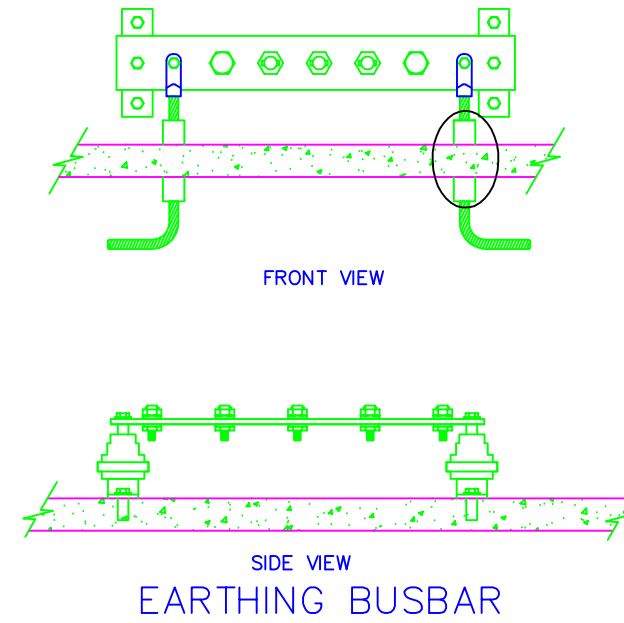
LEGEND:

SYMBOL	DESCRIPTION
	MAIN DISTRIBUTION BOARD WALL MOUNTED.
	POLE MOUNTED OUTDOOR LED LIGHT FIXTURE
	MANUAL TRANSFER SWITCH
	MANUAL TRANSFER SWITCH
	CABLE TRAY
	CABLE TRENCH
	MANHOLE

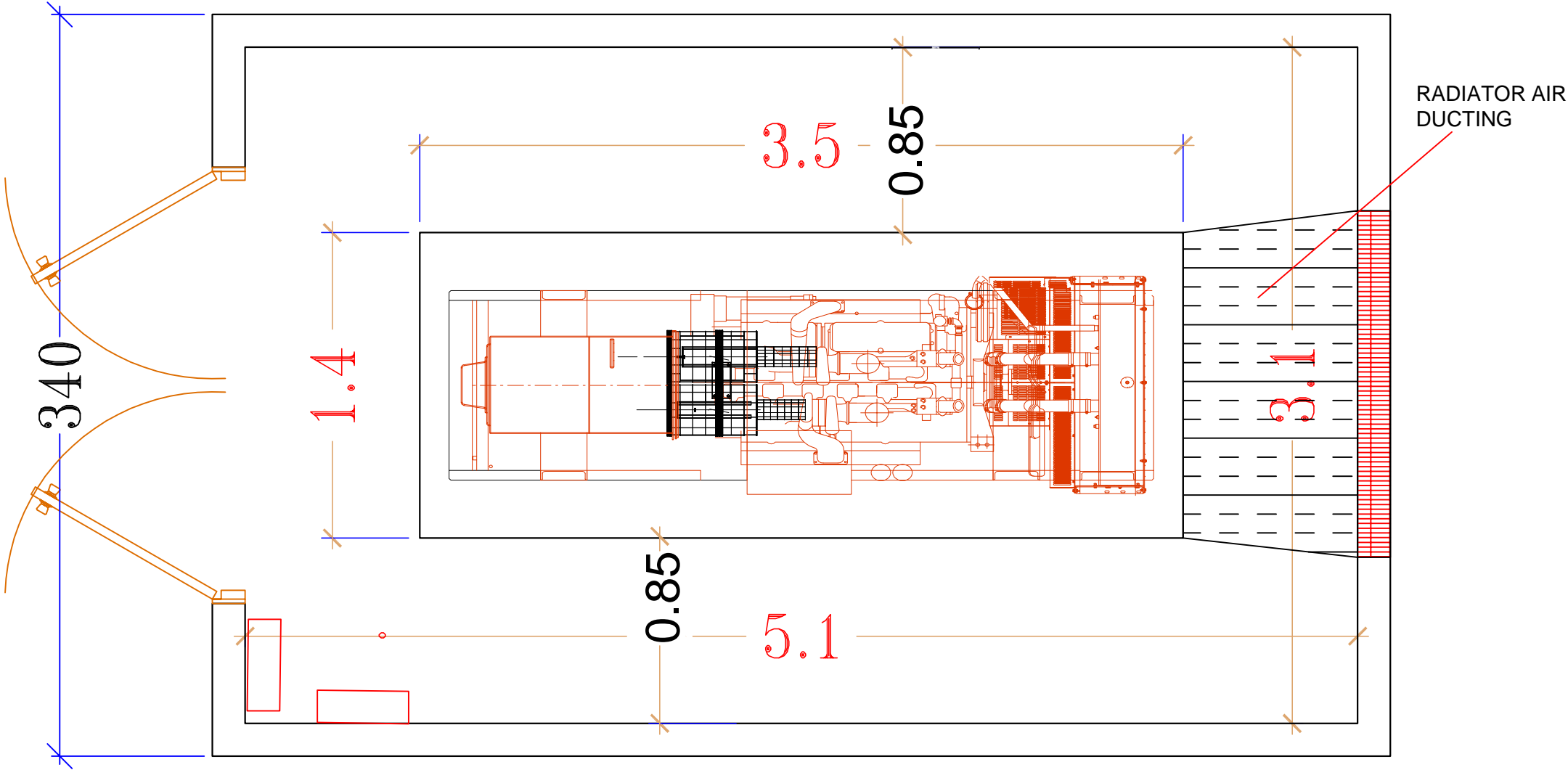




C1 DIRECT BURIED CABLE TRENCH



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SYMBOL	DESCRIPTION
	LOUVERS

GENERATOR ROOM PLAN DETAILS.
SCALE: 1:25.

PREPARED BY:

UNOPS
OPERATIONAL EXCELLENCE
FOR RESULTS THAT MATTER.
SANA'A - YEMEN.

FUNED BY:

WORLD BANK GROUP
WORLD BANK GROUP.

PROJECT TITLE:

CHILDREN CENTER FOR AUTISM

PROJECT LOCATION:

ADEN- YEMEN

DRAWING TITLE:

GENERATOR ROOM PLAN DETAILS.

DRAWING TYPE:

ELECTRIC PLANS.

DESIGN BY:

CHECKED BY:

APPROVED BY:

UNOPS DESIGN REVIEW TEAM

STATUS:

TENDER DOCUMENTS.

PROJECT NO:

IUS-OPS-ESC-ADN-049.2

DATE:

28.OCT.2019

PAPER SIZE:

A3.

SCALE:

AS SHOWN.

NORTH:


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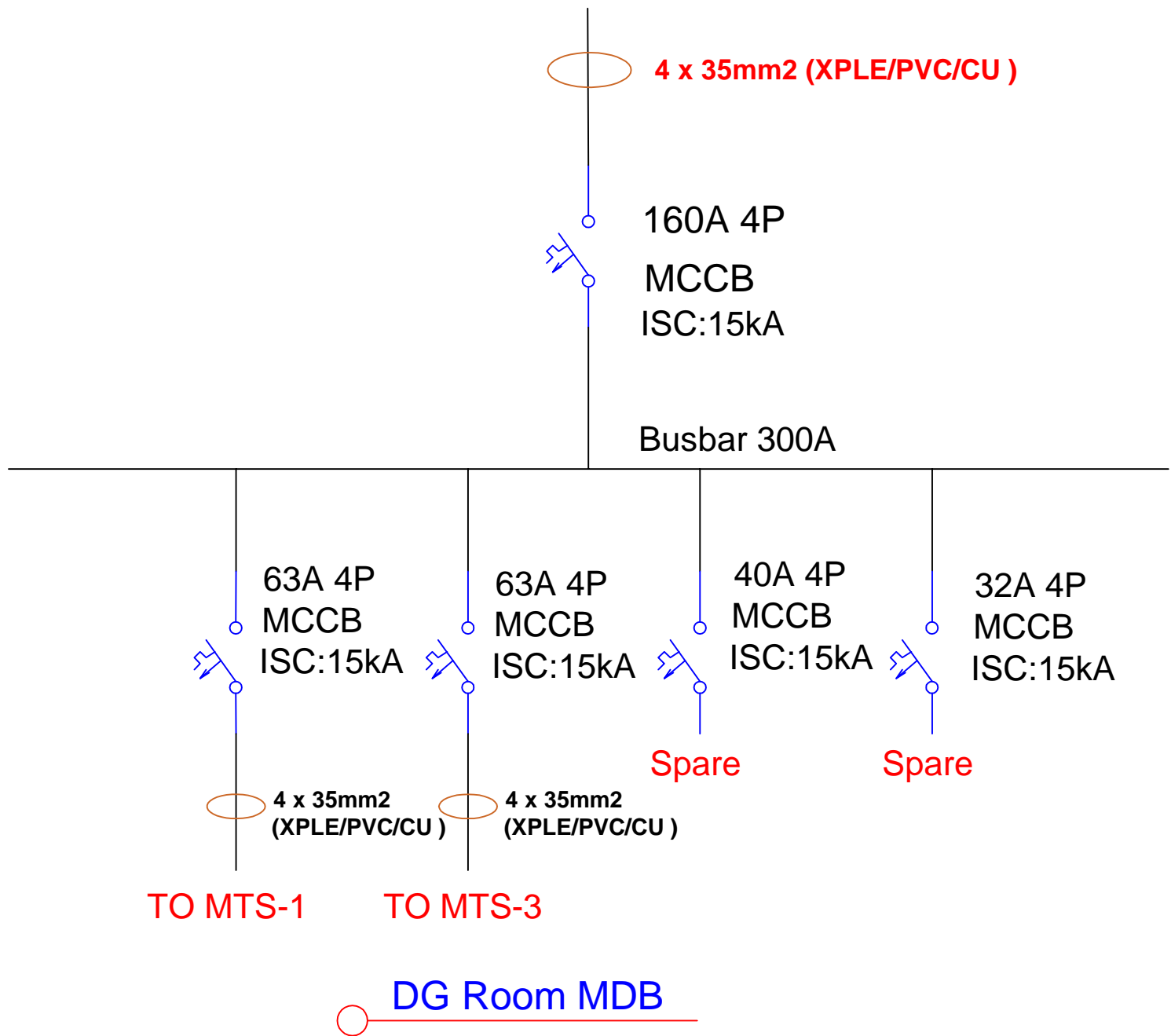
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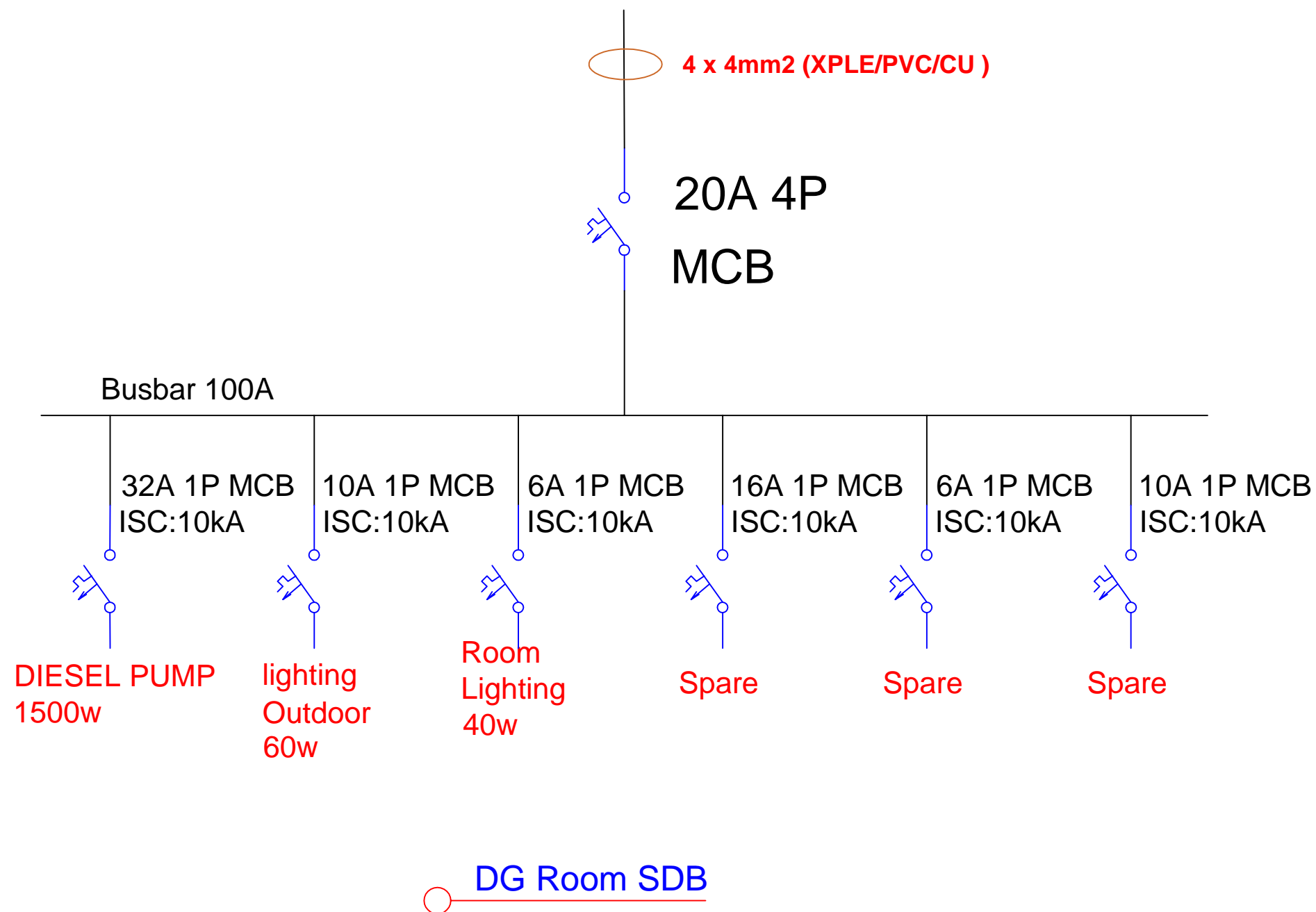
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4. NEW DISTRIBUTION BOARD SHALL BE INSTALLED IN THE SAME LOCATION OF EXISTING ONE.

LEGEND:

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER (MCCB/MCB)






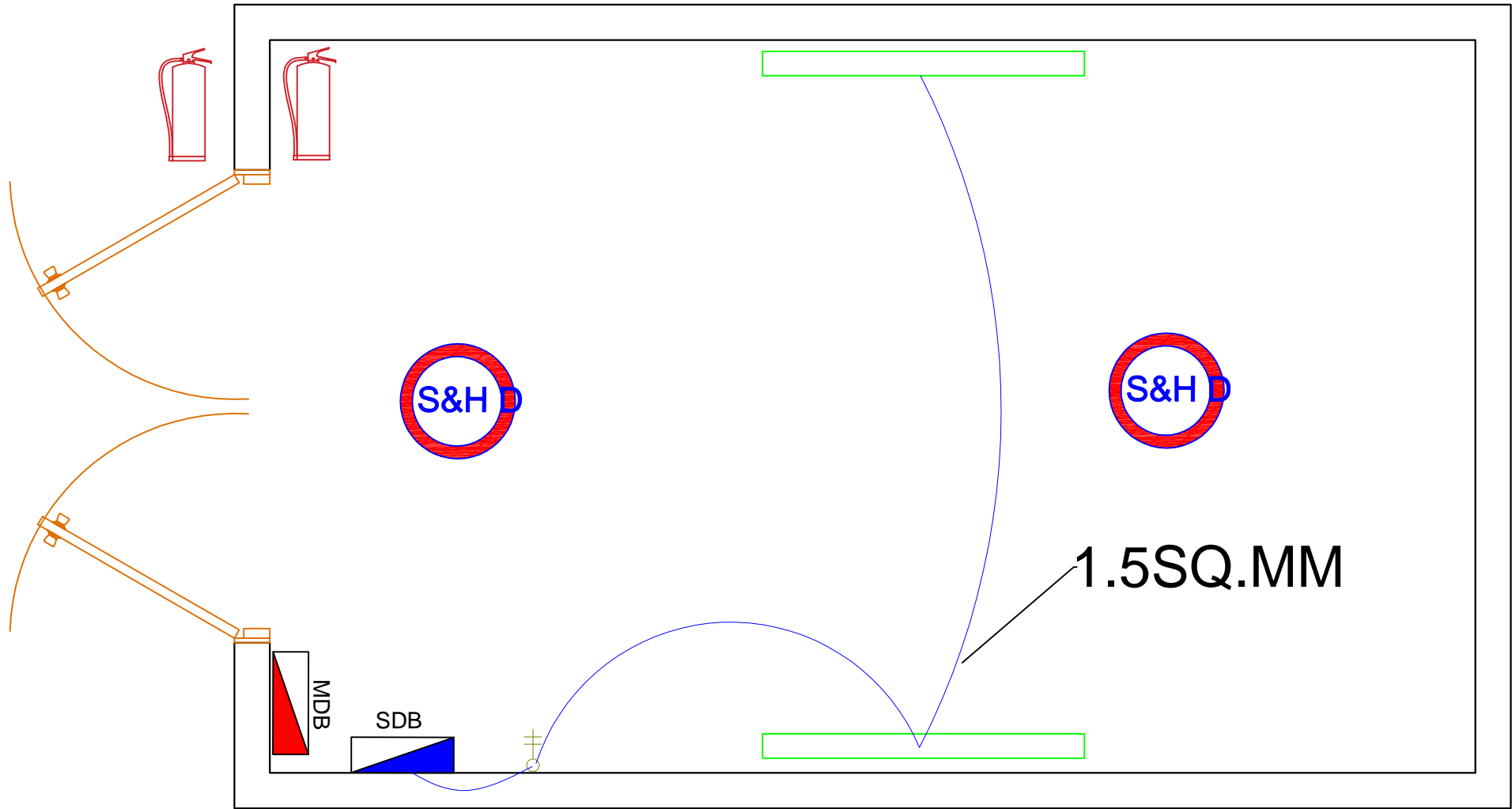
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SYMBOL	DESCRIPTION
	CO ₂ FIRE EXTINGUISHER
	DG Room MDB
	SMOKE AND HEAT DETECTOR
	LED LIGHTING FIXTURE
	TWO POLE ONE-WAY SWITCH
	DG Room SDB

GENERATOR ROOM PLAN DETAILS.
SCALE: 1:25.