

NOTES:
1. ALL EARTH SPIKES & CONDUCTORS TO BE SIZED TO THE DETAIL OF THE EARTH RESISTIVITY SURVEY INCLUDED IN THE SPECIFICATION DOCUMENT.
2. ALL METAL SHEETING FOR WALLS AND ROOF STRUCTURE TO BE BONDED TO EARTH.
3. NASA ANTENNA EARTHING TO BE DONE BY NASA APPOINTED CONTRACTOR.

Spacing in m (ft)	Resistance (ohms)	Temperature (°C)
1	30.0	4.1
2	15.0	7.9
3	10.0	11.7
4	7.5	15.5
5	6.0	19.3
10	3.0	38.6
20	1.5	77.1

Spacing in m (ft)	Resistance (ohms)	Temperature (°C)
1	30.0	4.1
2	15.0	7.9
3	10.0	11.7
4	7.5	15.5
5	6.0	19.3
10	3.0	38.6
20	1.5	77.1

Spacing in m (ft)	Resistance (ohms)	Temperature (°C)
1	30.0	4.1
2	15.0	7.9
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FOR TENDER

REV	DATE	DESCRIPTION	SIGN
A	2024-08-20	ISSUED FOR INFORMATION	S.P.
B	2024-11-08	ISSUED FOR INFORMATION	S.P.
T	2024-12-11	ISSUED FOR TENDER	S.P.
T01	2025-02-10	ISSUED FOR TENDER	S.P.

- LEGEND -

XXXX	EARTH BAR
●	BONDING TO METAL STRUCTURE
●	COPPER EARTH CONDUCTOR, BONDING DOWN CONDUCTOR TO EARTH ELECTRODE
●	EXTENSIBLE COPPER EARTH ELECTRODE DRIVEN TO A DEPTH PRECE TERMINED BY SOIL RESISTIVITY SURVEY
●	CABLE BELOW GRADE TO BE EXOTHERMICALLY WELDED
●	BONDING TO ROOF STRUCTURE
●	COPPER EARTH CONDUCTOR TO METAL STRUCTURE
●	BONDING TO METAL STRUCTURE
T	EARTH TESTING POINT - 100x100 CHASED IN BOX AT 500mm APTL WITH LABELED BOX COVER BOX TO BE LINKED TO EARTH ELECTRODE AND ROOF STRUCTURE

1 Site Plan Earthing & Lightning Protection Layout
1 : 1000

3 Gatehouse Earthing & Lightning Protection Layout
1 : 200

2 Generator Building Earthing & Lightning Protection Layout
1 : 200

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DETAIL 1
TYPICAL LIGHTNING PROTECTION
DRAWBOX DETAIL N.T.S.
BONDING TO ROOF

DETAIL 2
TYPICAL FOR BONDING COLUMN
STEEL TO EARTH STRAP

- ELECTRICAL NOTES -

- ARCHITECT -



ARCH. REV.:



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2001
TEL: 011 496 5101

1 HAWSTON ROAD
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FOR TENDER

- PROJECT -

SANSA



APPROVED: H.M.	PLOT DATE: 08/05/24
CHECKED: F.L.	SCALE: As indicated
DESIGNED: F.L.	DRIVE: As indicated
DRAWN: S.P.	FILE: SANSA

- DRAWING DESCRIPTION -

Earthing & Lightning
Protection Layout

- DRAWING NUMBER -

PROJECT # COMPANY / SUBPROJECT TITLE / SUB RESPONSE NUMBER

SMFN-CAI-EE-DR-001_01

T01

A0