

# EARTHING & LIGHTNING PROTECTION SYSTEM Maqhashiya Solar PV Project

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16 September 2026

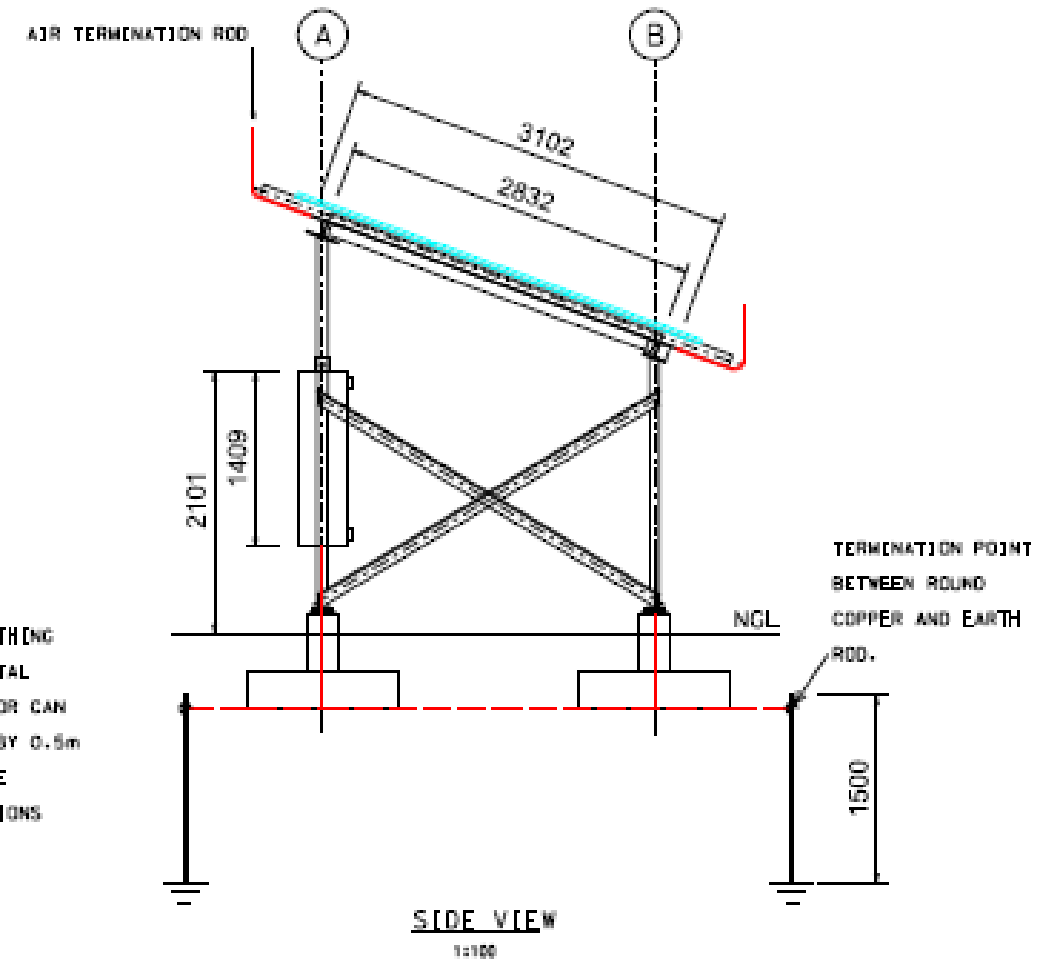
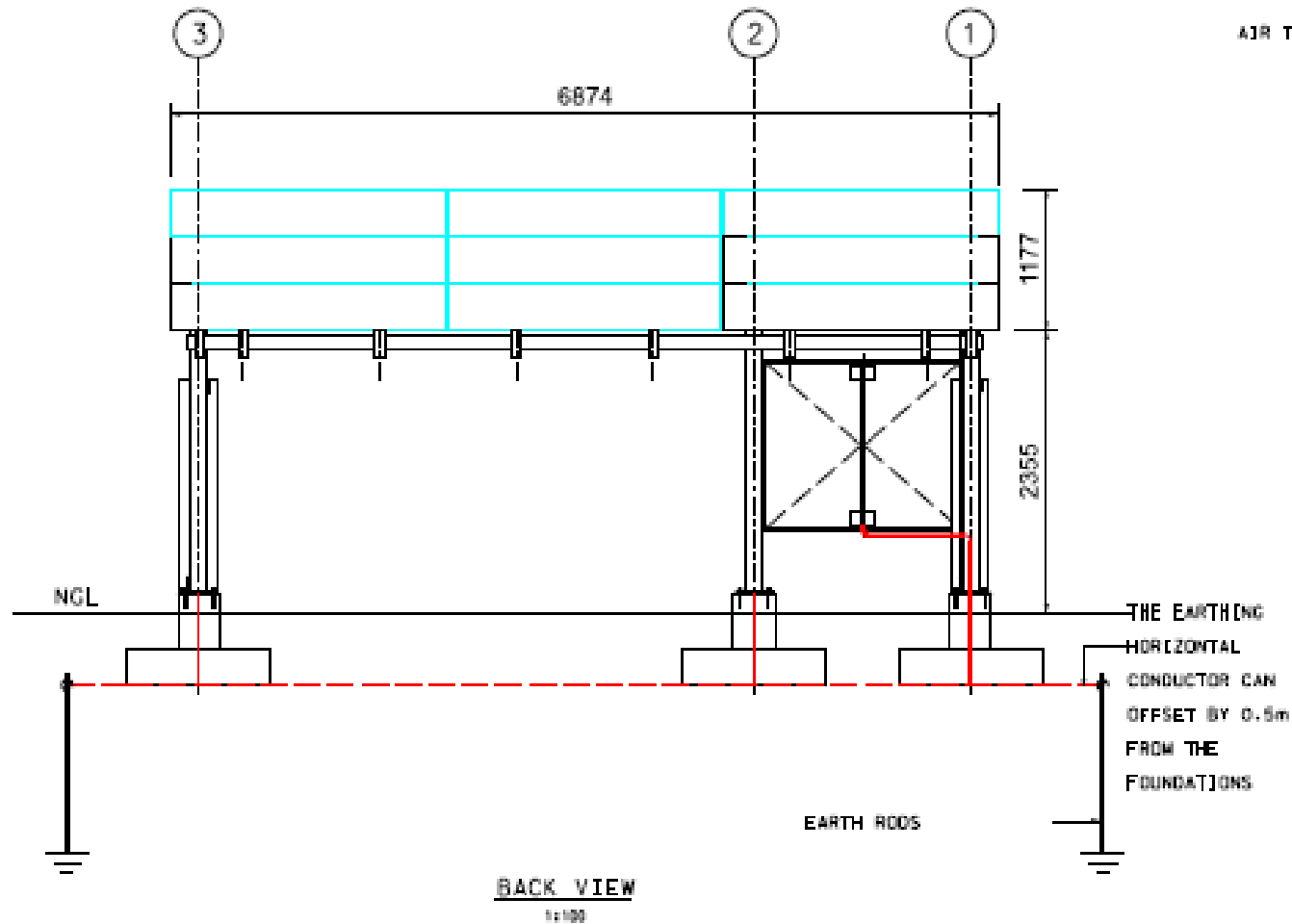


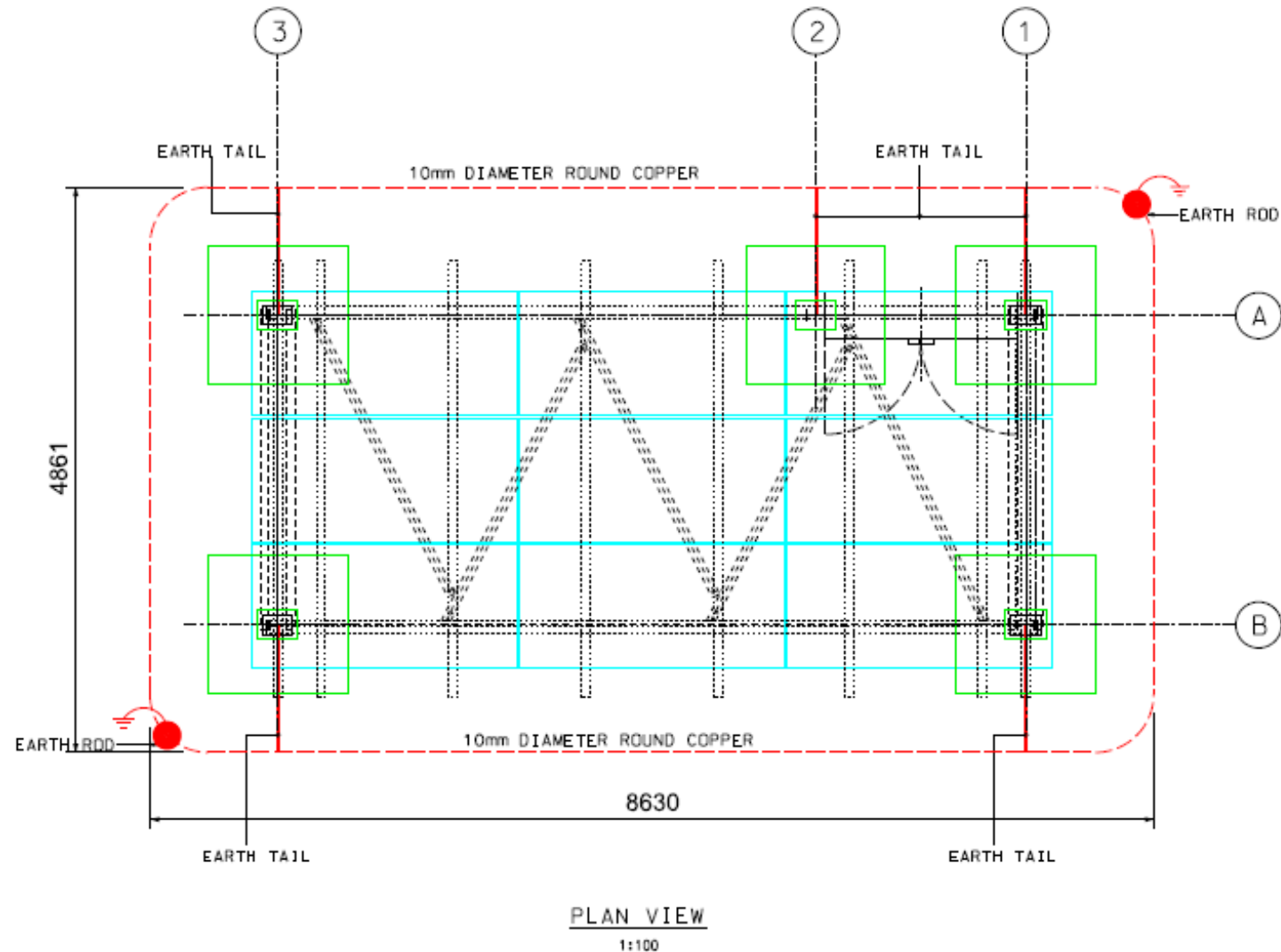
## Scope of Work

The scope of work includes the design, supply, installation, testing, and commissioning of a Class III Lightning Protection System (LPS) in accordance with the requirements of **SANS 62305**, including the following:

1. Installation of 4 × 1 m aluminium air termination rods.
2. Utilization of the steel structure as natural down conductors, subject to compliance with SANS 62305 requirements.
3. Installation of 2 × 1.5 m × 16 mm diameter copper-coated steel earth rods (D3091).
4. Installation of 50 mm × 3.15 mm flat copper conductor earth tails and associated earth connections.
5. Provision of equipotential bonding of all relevant metallic parts and services.
6. Installation of earthing connections for Surge Protective Devices (SPDs), and AC and DC boards.
7. Testing and verification of the lightning protection and earthing system to ensure compliance with SANS 62305.

# Lightning Protection System Layout





Thank You

