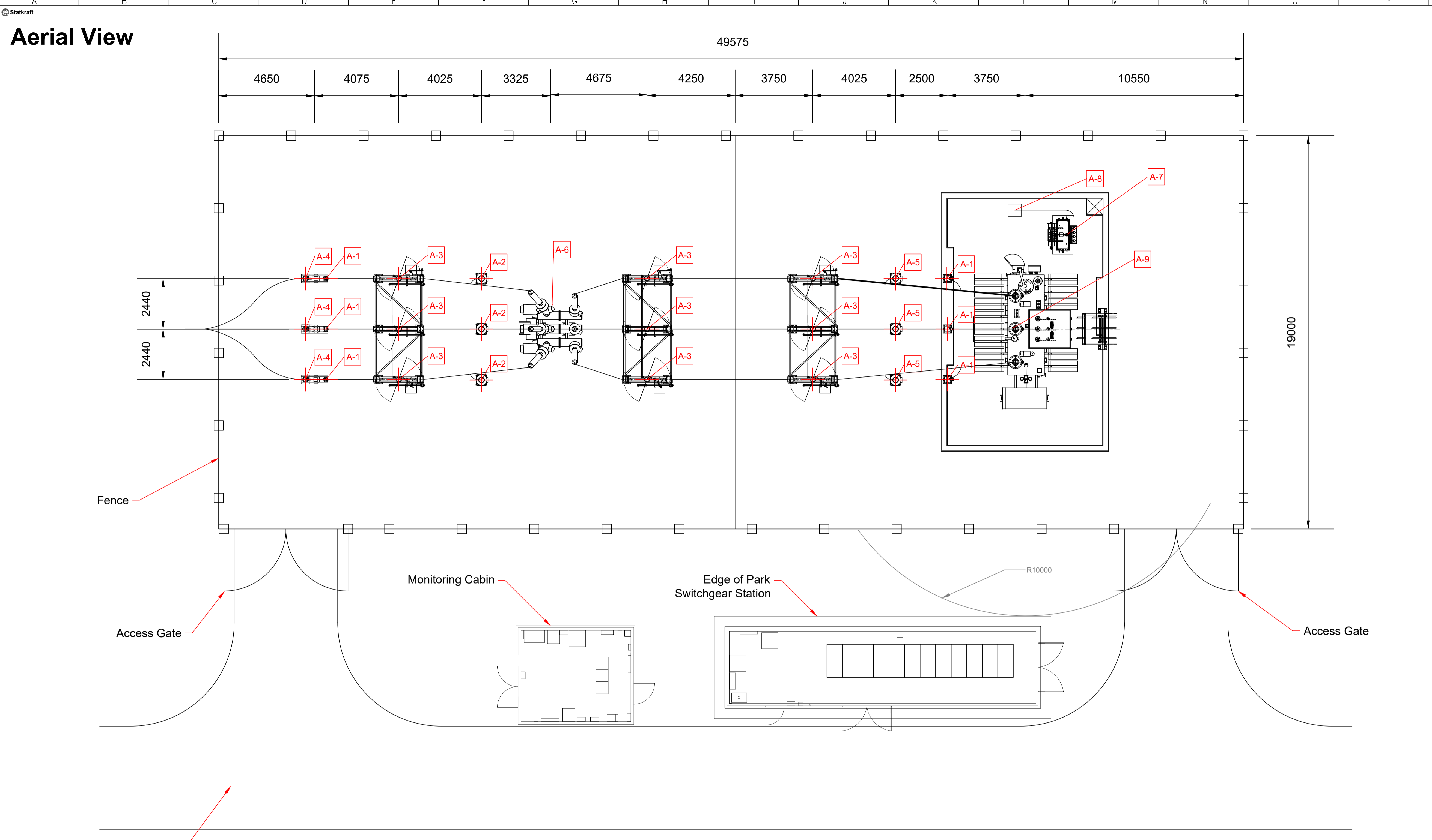


Aerial View



| Substation Equipment | | |
|----------------------|---|----------|
| No. | Description | Quantity |
| A-1 | Surge Arrester | 6 |
| A-2 | VT | 3 |
| A-3 | Disconnecter with earth switch | 3 |
| A-4 | Cable Termination | 3 |
| A-5 | High Accuracy Metering VT | 3 |
| A-6 | Dead tank circuit-breaker with toroidal CTs | 1 |
| A-7 | Earthing transformer | 1 |
| A-8 | NER | 1 |
| A-9 | Power Transformer | 1 |

| NOTES | | |
|-------|--|--|
| 1) | The layout is valid for an underground tee-in connection onto the distribution grid. Should the required connection be different, the layout shall be reviewed. | |
| 2) | Specific DNO's requirements shall be reviewed to adequate the layout and installed switchgear to it. | |
| 3) | All dimensions in millimeters unless stated otherwise. | |
| 4) | The IPP building has been sized to house up to 12 MV switchgear panels. Its dimensions shall be checked in each case depending on the MEC of the generation plant. | |
| 5) | Monitoring Cabin structure detail can be found in drawings HVG-104 | |
| 6) | Edge of Park Switchgear Station structure detail can be found in drawing MCS-253. | |

Fence

Access Gate

Monitoring Cabin

Edge of Park Switchgear Station

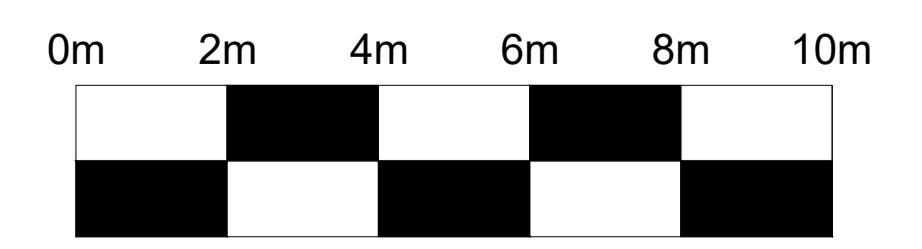
Access Gate

Access Track

CLEARANCES FOR BUSBARS AND CONNECTIONS IN ACCORDANCE WITH UKPN SAFETY RULES AND BS EN 61936-1:2021

| | | |
|---|---|----------|
| 1 | NOMINAL VOLTAGE BETWEEN PHASES | 132 kV |
| 2 | MINIMUM CLEARANCE OF DANGER ZONE (N) | 1300 mm |
| 3 | MINIMUM APPROACH DISTANCE BETWEEN VEHICLE AND LIVE PARTS (T) | 1400 mm |
| 4 | MINIMUM CLEARANCE OF LIVE PARTS ABOVE ACCESSIBLE SURFACE (PEDESTRIAN CLEARANCE) (H) | 3550 mm |
| 5 | MINIMUM LATERAL DISTANCE FROM BUILDING'S END OF THE ROOF (O2) | 1600 mm |
| 6 | MINIMUM CLEARANCE TO WIRE MESH (B2) | 1380 mm |
| 7 | MINIMUM CLEARANCE FROM EQUIPMENT TO EXTERNAL SUBSTATION FENCE (E) | 2800 mm |
| 8 | MINIMUM DISTANCE BETWEEN POWER TRANSFORMER AND BUILDINGS | 10000 mm |

| NETWORK CHARACTERISTICS | | |
|-------------------------|--|--------|
| 1 | NOMINAL VOLTAGE BETWEEN PHASES | 132 kV |
| 2 | HIGHEST VOLTAGE FOR INSTALLATION (Um) | 145 kV |
| 3 | STANDARD RATED SHORT-DURATION POWER-FREQUENCY WITHSTAND VOLTAGE (Ud) | 275 kV |
| 4 | STANDARD RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE (Up) | 650 kV |



PROPOSAL ONLY
NOT CDM 2016 COMPLIANT



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| REV | DATE | DESCRIPTION | DRAWN | APPRV |
|-----|------------|----------------|-------|-------|
| A | 01/06/2022 | Scale changed | ZG | AP |
| - | 12/01/2022 | First Emission | AM | PP |

Main Building Plant
SCALE 1:100 A1
SCUKX-SHEEP-001-HVG-465
SHEET 1 of 1