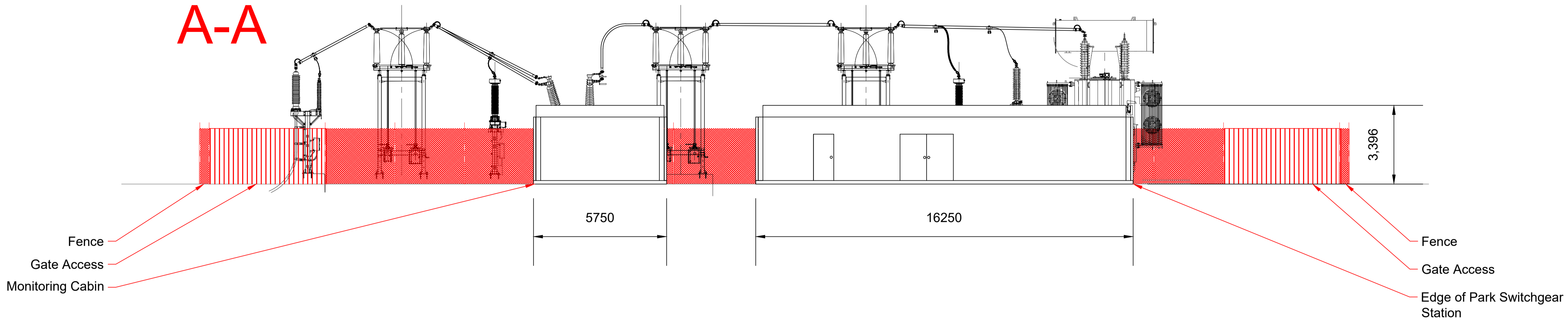


# Front View

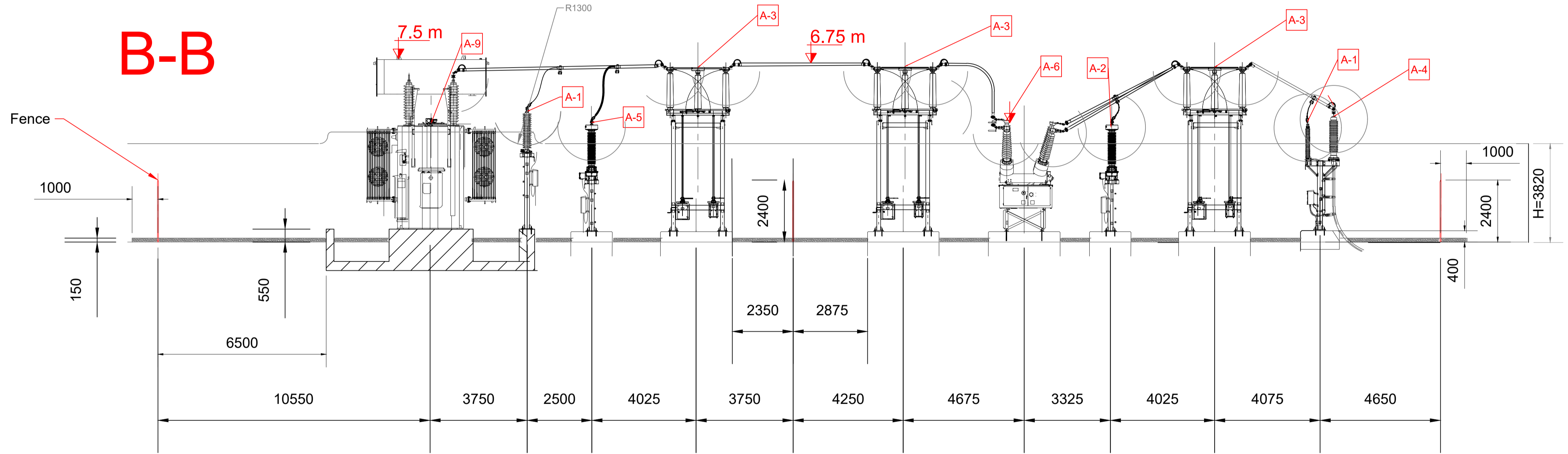
A-A



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

# Back View

B-B

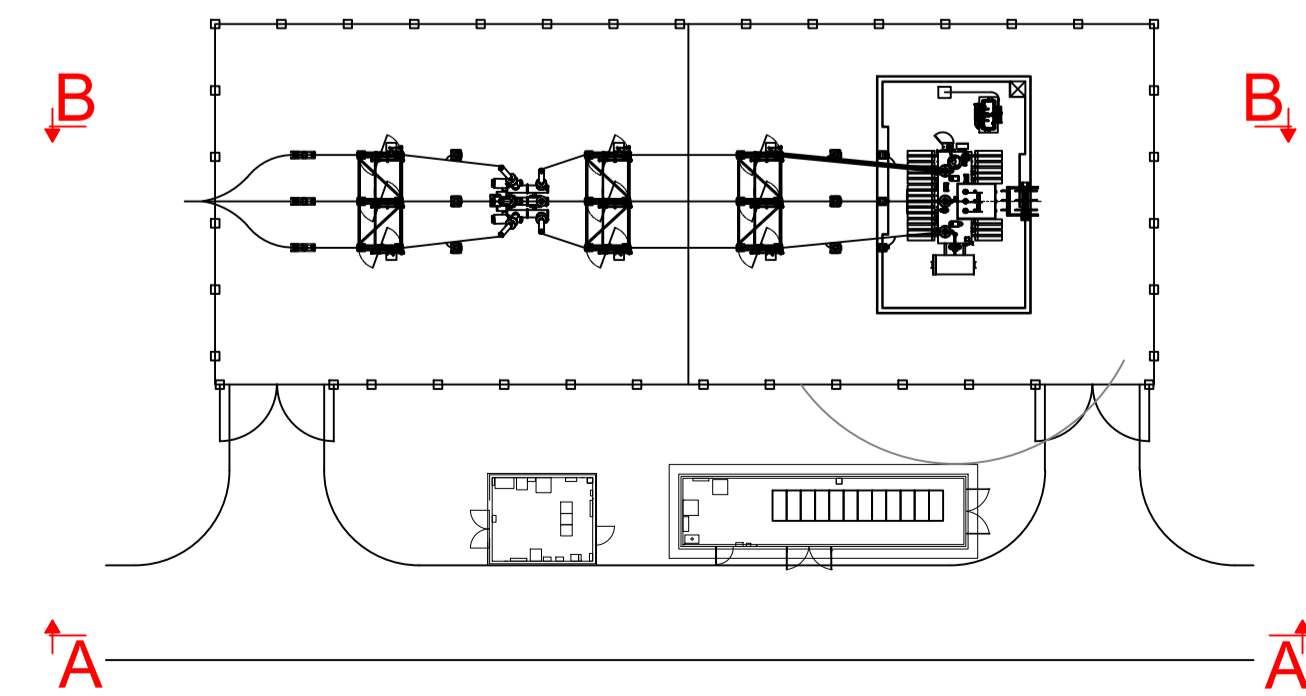


- NOTES**
- 1) The layout is valid for an underground tee-in connection onto the distribution grid. Should the required connection be different, the layout shall be reviewed.
  - 2) Specific DNO's requirements shall be reviewed to adequate the layout and installed switchgear to it.
  - 3) All dimensions 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.

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

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

# Aerial View



**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 Elevation  
SCALE 1:100 A1  
SCUKX-SHEEP-001-HVG-466  
SHEET 1 of 1

