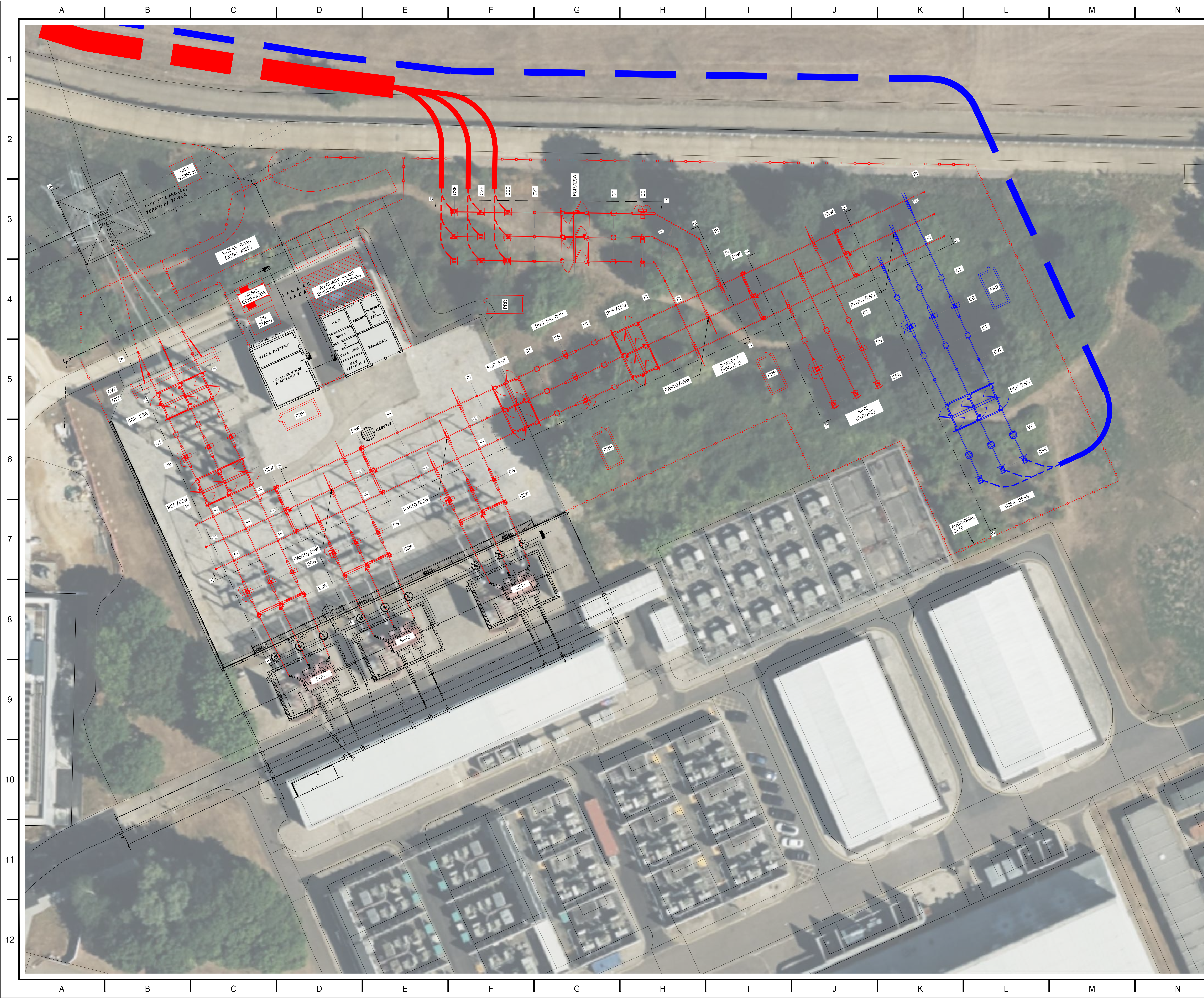




SUBSTATION MINIMUM ELECTRICAL CLEARANCES IN ACCORDANCE WITH TS 2.1 AND TGN(E) 186		
REF	NOMINAL SYSTEM VOLTAGE (rma)	400kV
1	PHASE TO EARTH CLEARANCE	2.8m
2	PHASE TO PHASE CLEARANCE	3.6m
3	SAFETY DISTANCE (FROM NGC SAFETY RULES)	3.1m
4	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	4.6m
5	DESIGN CLEARANCE FOR SAFETY (VERTICAL) DS1	5.5m
6	INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4m
7	MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	6.6m
8	MEWP ACCESS CORRIDOR TO DEAD CIRCUIT	3m
9	CRANE ALLOWANCE	7.5m

TABLE OF PLANT ABBREVIATIONS	
PI	POST INSULATOR
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
DCB	DISCONNECTING CIRCUIT BREAKER
RCP	ROTATING CENTRE POST DISCONNECTOR
ESW	EARTH SWITCH
CSE	CABLE SEALING END
PANTO	PANTOGRAPH DISCONNECTOR
VT	VOLTAGE TRANSFORMER
CVT	CAPACITIVE VOLTAGE TRANSFORMER
PRR	PORTABLE RELAY ROOM

NOTES:

1. FOR ELEVATIONS, SEE PDD-101839-ELE-004.

2. FOR CABLE ROUTE AND CSE COMPOUND DETAILS, SEE PDD-101839-LAY-003.

REFERENCE DRAWINGS:

21/22775 - LAYOUT AND SECTIONS OF 400KV SUBSTATION

LEGEND:

— NEW NATIONAL GRID PLANT

— NEW USER PLANT

— EXISTING PLANT

0 5 10 15 20 25m

ORIGINAL SCALE 1:250

P1	UPDATED FOR 4.3 FEED STAGE	JD	AT	FM	11.04.24
PD	FIRST ISSUE	JD	TF	CN	15.11.23
Rev	Description	Chkd	Chkd	Appr'd	Date

nationalgrid

Master Scheme No:
101839

Sub-Scheme No:

Site:
CULHAM JET 400KV SUBSTATION

Scheme Name:
CULHAM JET 400KV SUBSTATION

Document Title:
PROPOSED LAYOUT - OPTION D
MAIN BUSBAR REBUILD WITH FUTURE SGT BAY

Created by: JD	Date: 15/11/23	Checked by: TF	Date: 15/11/23	Approved by: CN	Date: 15/11/23
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