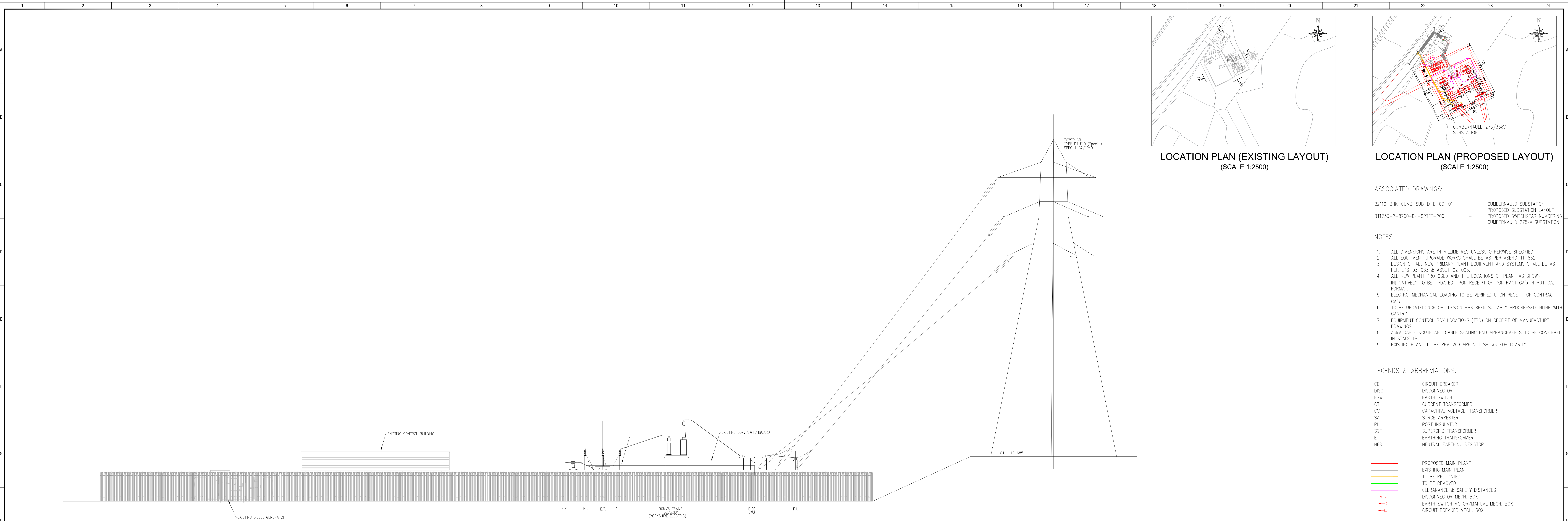




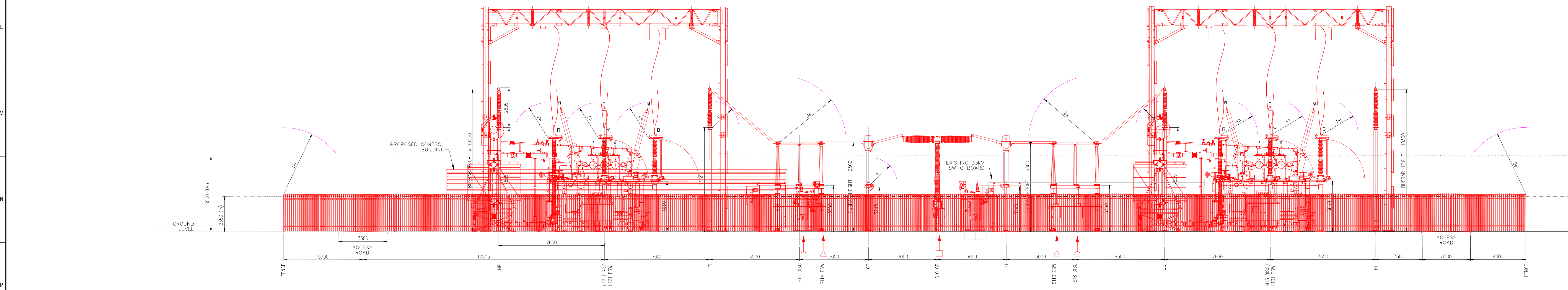
ELEVATION B (EXISTING ARRANGEMENT)
(SCALE 1:125)

275kV MAIN PLANT EQUIPMENT SCHEDULE					
EQUIPMENT REF.	DESCRIPTION	QUANTITY	MANUFACTURER	TYPE	GA DRAWING No.
CB	1 PHASE CIRCUIT BREAKER	9	TBC	TBC	TBC
DISC/ESW	3 PHASE DISCONNECTOR WITH 1 EARTH SWITCH	6	TBC	TBC	TBC
ESW	3 PHASE EARTH SWITCH	4	TBC	TBC	TBC
SGT	SUPER GRID TRANSFORMER	2	TBC	TBC	TBC
CT	CURRENT TRANSFORMER	18	TBC	TBC	TBC
CVT	CAPACITIVE VOLTAGE TRANSFORMER	12	TBC	TBC	TBC
SA	SURGE ARRESTER	12	TBC	TBC	TBC
HPI	HIGH POST INSULATOR	12	TBC	TBC	TBC
LPI	LOW POST INSULATOR	6	TBC	TBC	TBC

33kV MAIN PLANT EQUIPMENT SCHEDULE					
EQUIPMENT REF.	DESCRIPTION	QUANTITY	MANUFACTURER	TYPE	GA DRAWING No.
ET	EARTHING TRANSFORMER	2	TBC	TBC	TBC
NER	NEUTRAL EARTHING RESISTOR	2	TBC	TBC	TBC
SA	SURGE ARRESTER	6	TBC	TBC	TBC
PI	POST INSULATOR	12	TBC	TBC	TBC

ELECTRICAL SAFETY CLEARANCE REFERENCE TABLE			
REF	DESCRIPTION	275kV	33kV
E	PHASE TO EARTH CLEARANCE	1.9m	0.5m
Ph	PHASE TO PHASE CLEARANCE	2.6m	0.32m
SD	SAFETY DISTANCE*	2.4m	0.8m
Ds	DESIGN CLEARANCE FOR SAFETY – VERTICAL	4.8m	3.05m
Dsh	DESIGN CLEARANCE FOR SAFETY – HORIZONTAL	3.9m	2.3m
D1	SURGE ARRESTER TO LIVE EQUIPMENT OF SAME PHASE	2.1m	0.5m
D2	SURGE ARRESTER TO EARTH	2.1m	0.5m
D3	SURGE ARRESTER TO SURGE ARRESTER, BETWEEN PHASES	2.4m	0.5m
Ds (MEWP)	MEWP DESIGN FOR SAFETY – VERTICAL	6.8m	5.05m
Dsh (MEWP)	MEWP DESIGN FOR SAFETY – HORIZONTAL	5.9m	4.3m
lh	INSULATION HEIGHT – PEDESTRIAN ACCESS	2.05m	2.05m
	STANDARDISED PHASE TO PHASE BUSBAR SPACING	3.65m	1.2m
	MINIMUM HEIGHT OF CONDUCTORS ABOVE ROADWAYS	7.0m	5.8m

* A DISTANCE OF 300mm SHALL ALSO BE MAINTAINED FROM THAT PORTION OF THE INSULATORS SUPPORTING EXPOSED HV CONDUCTORS WHICH IS OUTSIDE THE APPROPRIATE SAFETY DISTANCE (SD) FROM THE CONDUCTORS – REFER TO SPEN SAFETY BASIC SAFETY RULE A2.6



ELEVATION B (PROPOSED ARRANGEMENT)
(SCALE 1:125)

P01	19/08/2028	POC	SJ	RH	ISSUED FOR PLANNING APPLICATION
Rev	Date	Drawn	Reviewed	Approved	Reason / Description of changes
Top File					
CUMBERNAULD SUBSTATION PROPOSED & EXISTING SUBSTATION ELEVATION B					
Location: CUMBERNAULD					
Project:	DWNO - DENNY TO WISHAW NETWORK OPTIMISATION		Dwg No:	22119-BHK-ZS-CUMSUBS-DR-EM-4002	
Sheet Code:	S5 FOR REVIEW AND ACCEPTANCE		SPEN Ref. No:	N/A	
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