2.1 Bus Bar Schedule for 132kV Melksham Incomer

Item ID	Description	Diameter	Type	Rating	Supplier	Approx Length	Quantity
BB01	Post Insulator to Disconnector	Tubular 90mmØ x 6mmØ wall	Aluminium	2000 A	C & S	7400 mm	3
BB02	Disconnector to Post Insulator	Tubular 90mmØ x 6mmØ wall	Aluminium	2000 A	C & S	7000 mm	3
BB03	Post Insulator to Post Insulator	Tubular 90mmØ x 6mmØ wall	Aluminium	2000 A	C & S	4600 mm	1
BB04	Post Insulator to Post Insulator	Tubular 90mmØ x 6mmØ wall	Aluminium	2000 A	C & S	2100 mm	1
DP01	Bus bar to Surge Arrester	Conductor 26mmØ Stranded	Aluminium	1200 A	TBC	1500 mm	3
DP02	Bus bar to Capacitive Voltage Transformer	Conductor 26mmØ Stranded	Aluminium	1200 A	TBC	800 mm	3
EC	Post Insulator to Disconnector	End Cap - Ø90x6mm	Aluminium	2000 A	C & S	-	6
EC	Disconnector to Post Insulator	End Cap - Ø90x6mm	Aluminium	2000 A	C & S	-	10

3.1 Clamp Schedule for 132kV Melksham Incomer

Item ID	Description	Diameter	Connector Type	Busbar Fixing Type	Rating	Supplier	Quantity
CP01	Post Insulator	127 PCD	7005\90,127\BLANK	Fixed	2000 A	C & S	3
CP02a	Surge Arrester	90mmØ AL to 26mmØ AL	9031\90,26	Fixed	1200 A	C & S	3
CP02b	Surge Arrester	26mmØ AL to 30mmØ AL	9047\26\30A	Fixed	1200 A	C & S	3
CP03a	Capacitive Voltage Transformer	90mmØ AL to 26mmØ AL	9031\90,26	Fixed	1200 A	C & S	3
CP03b	Capacitive Voltage Transformer	26mmØ AL to 45mm x 45mm AL	9021\26\N4\50	Fixed	1200 A	C & S	3
CP04	Disconnector	50mm x 50mm	7003\90\N4\50\90	Expansion	2000 A	C & S	3
CP05	Disconnector	50mm x 50mm	7001\90\N4\50\90	Expansion	2000 A	C & S	3
CP06a	Post Insulator	127 PCD	7005\90,127	Fixed	2000 A	C & S	1
CP06b	Post Insulator	127 PCD	9021\40,127\1	Fixed	2000 A	C & S	2
CP07	Post Insulator	127 PCD	7007\90,127\90	Fixed	2000 A	C & S	2
CP08a	Post Insulator	127 PCD	7001\90,127	Expansion	2000 A	C & S	2
CP08b	Post Insulator	127 PCD	9021\40,127\1	Fixed	2000 A	C & S	2

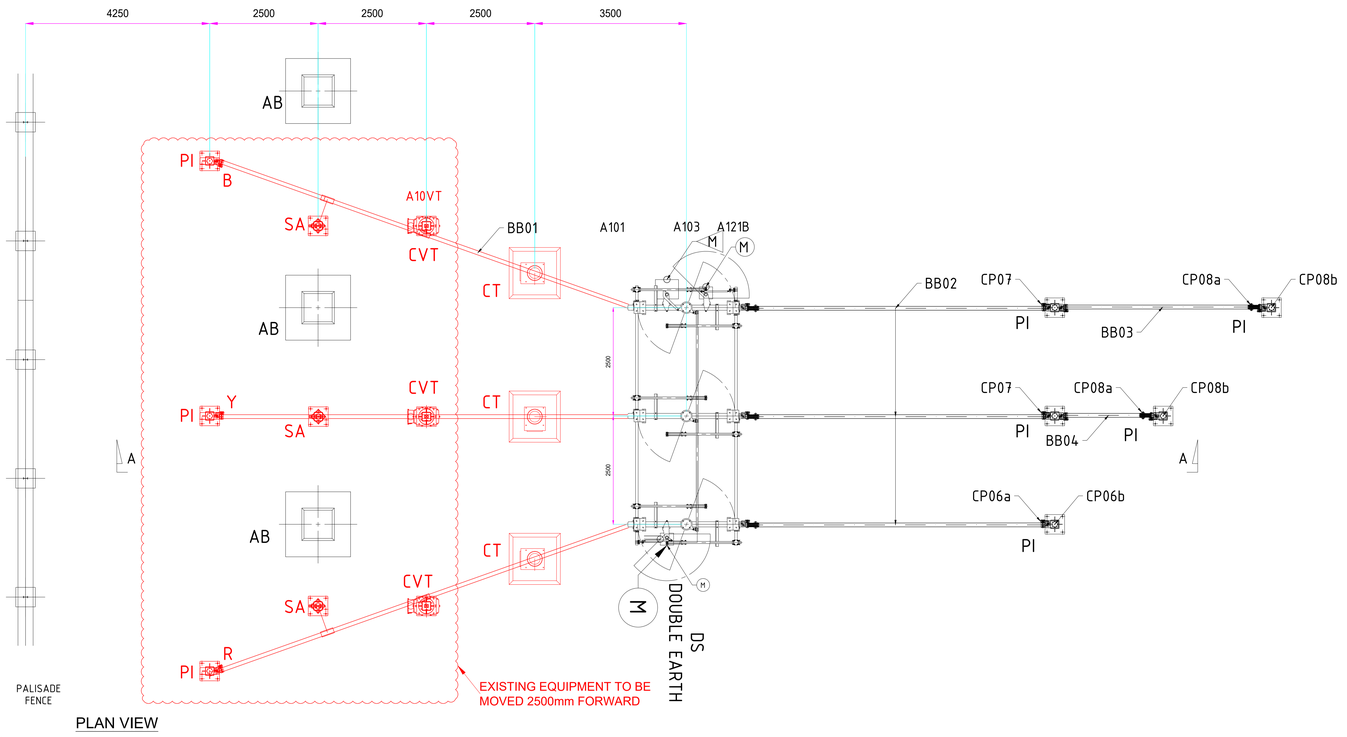
NOTES:

MINIMUM OPERATION AND WORKING CLEARENCE SHALL BE IN ACCORDANCE WITH NGTS 2.1 AND BS EN 61936-1 AS FOLLOWS:

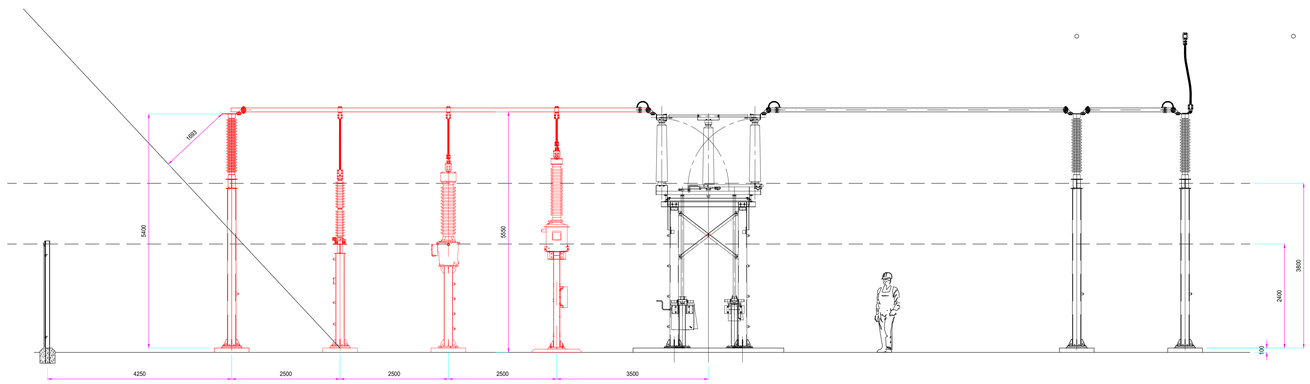
VOLTAGE	PHASE TO EARTH CLEARANCE	SAFETY WORKING CLEARANCE (VERTICAL)	SAFETY WORKING CLEARANCE (HORIZONTAL)	INSULATION HEIGHT (PEDESTRIAN ACCESS)	PHASE TO PHASE CLEARANCE
132kV	1.2m	3.8m	2.9m	2.4m	1.4m
33kV	0.5m	3.2m	2.3m	2.4m	0.43m

LEGEND:

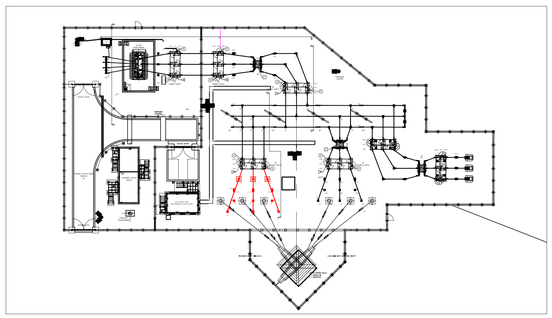
AB	-	ANCHOR BLOCK
B	-	BLUE
CVT	-	CURRENT VOLTAGE TRANSFORMER
DS	-	DISCONNECTOR
FCL	-	FINISHED CONCRETE LEVEL
FSL	-	FINISHED SHINGLE LEVEL
PI	-	POST INSULATOR
R	-	RED
SA	-	SURGE ARRESTOR
Y	-	YELLOW
M	-	DISCONNECTOR MOTOR MECH BOX
M	-	EARTH SWITCH MOTOR MECH



PLAN VIEW



ELEVATION A - A



LAYOUT

Scale 1:500

NOT APPROVED
DESIGN IN PROGRESS

metres 0 2.5 5 7.5 10 12.5 15

SCALE 1:50

REV	DESCRIPTION	DRN	APPD	DATE
01	CN7361 - NEW BAY AND CTs TO BE INSTALLED	IB	CS	-----
00	AS BUILT - FREEDOM	-	-	08/03/2016

LEGEND

EXISTING

PROPOSED

NOTES:

THIS DRAWING REFER TO DRAWING: 393890 - 1003 (FREEDOM)
DRAWING INDICATIVE ONLY

Scottish & Southern Electricity Networks

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PROJECT NUMBER	ERG940
DRAWING TITLE	SANDRIDGE 132/33KV SUBSTATION 132kV SECTION VIEW A - A PROPOSED
SUITABILITY DESCRIPTION	FIT FOR INTERNAL REVIEW AND COMMENT
CODE	S3
DRAWN	-
CHECKED	-
APPROVED	-
DRAWING NUMBER	SAPV/21/0114
SHEET	2 / 2
SCALE (@A0)	1:50
REV	01

File Name: V:\All Current Drawings\33kV Substation Drawings\SAPV Sandridge 132_33kV\SAPV0114_21 Rev 01.dwg

Date Plotted: 06.03.2023