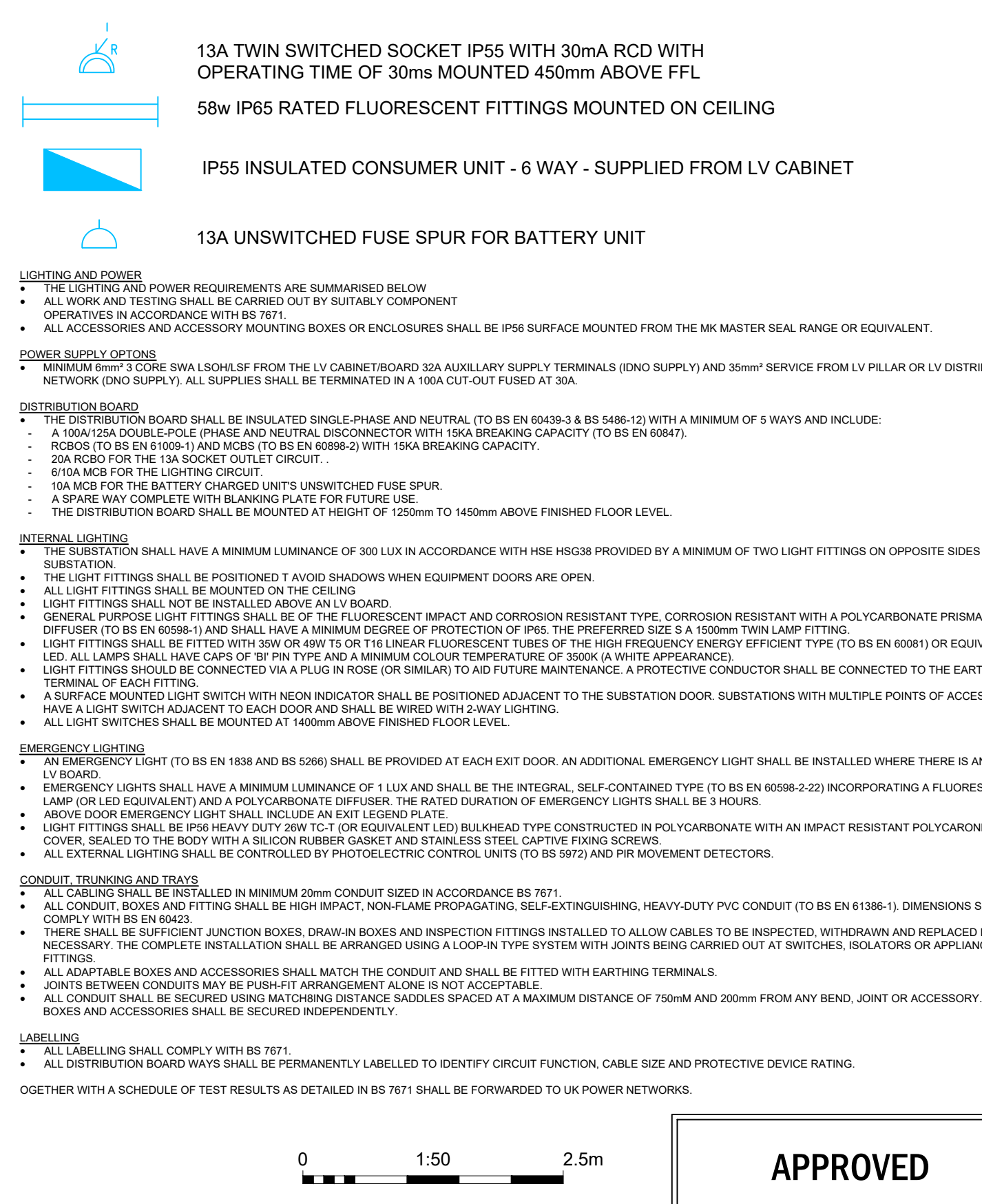
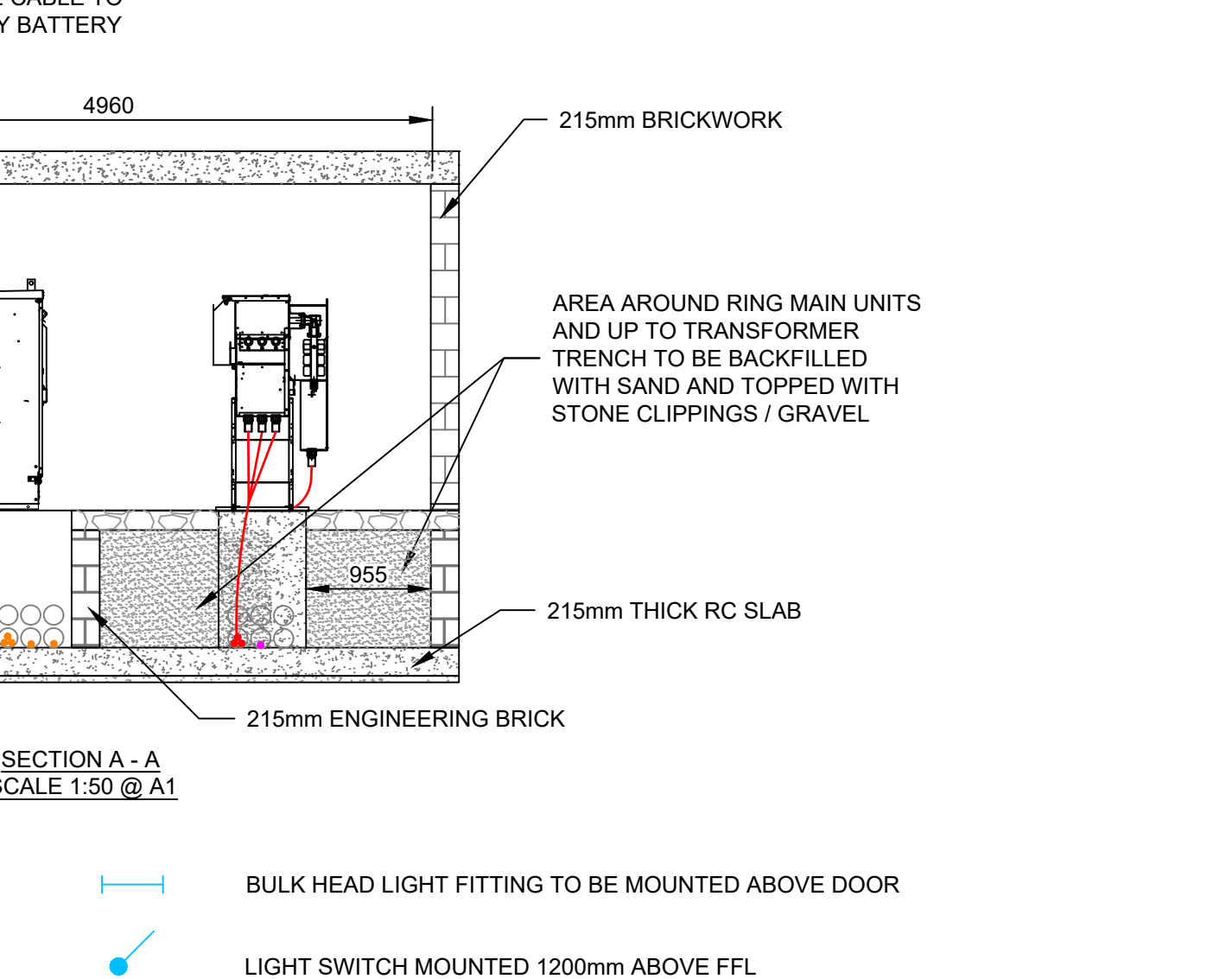
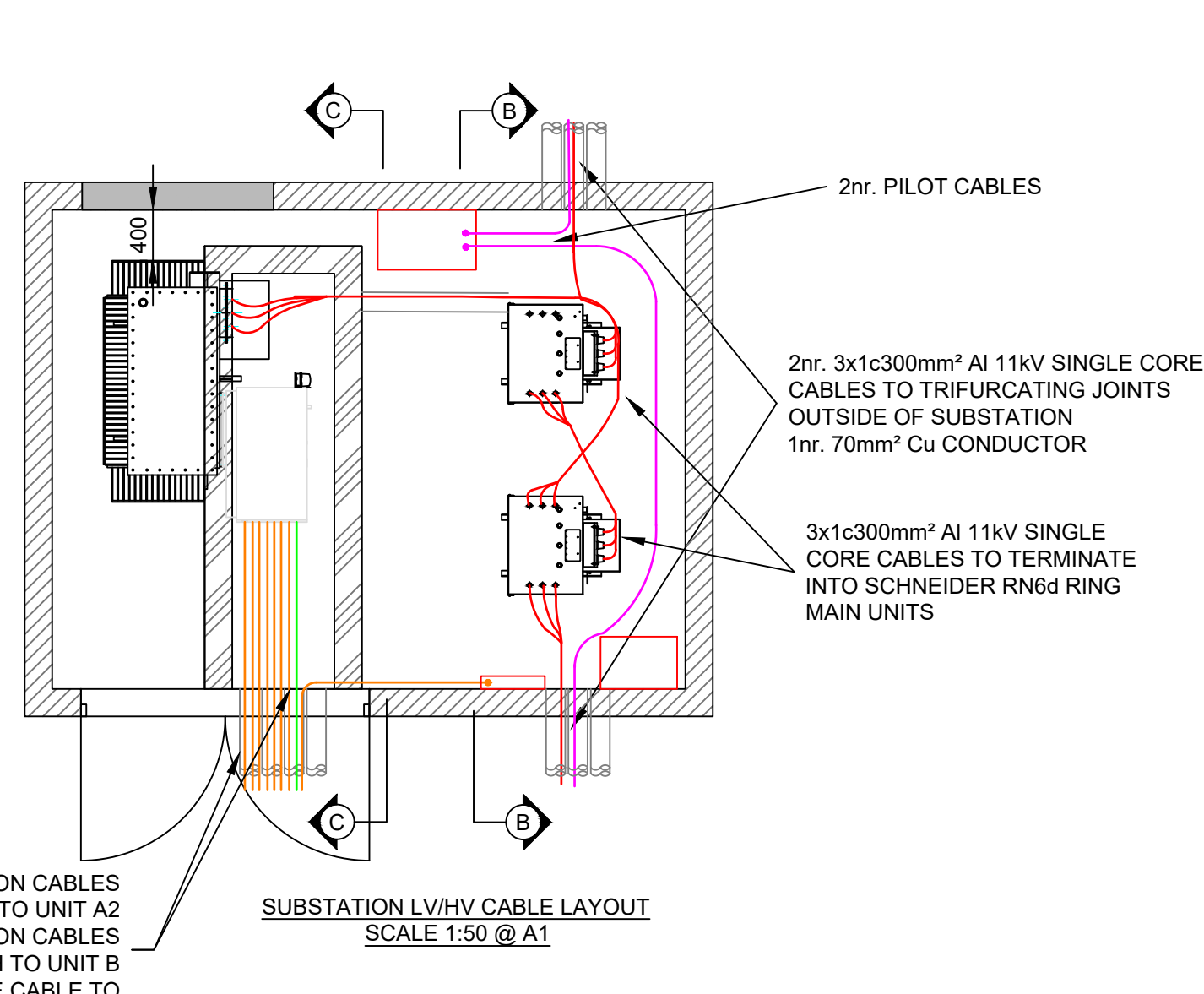
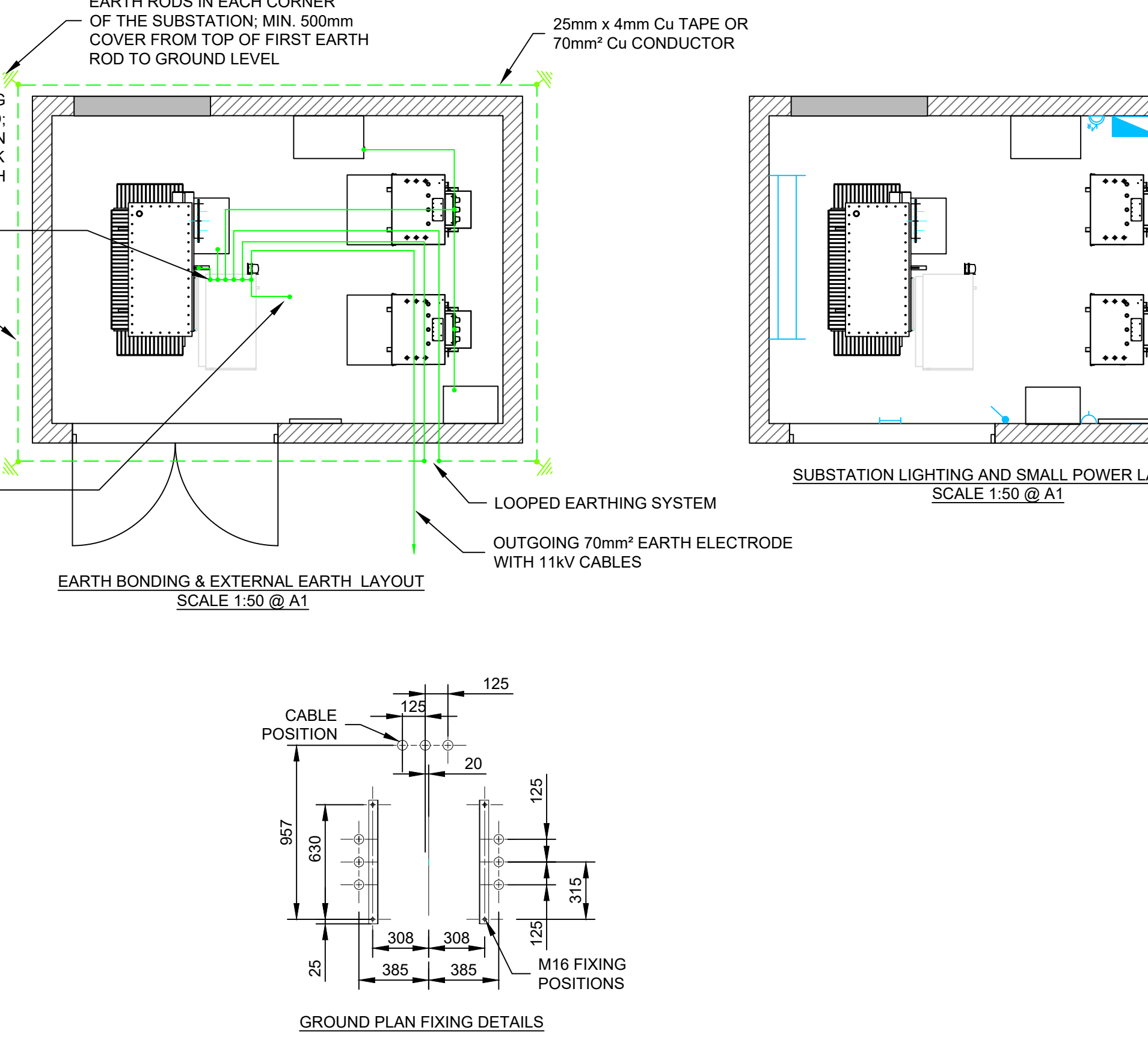
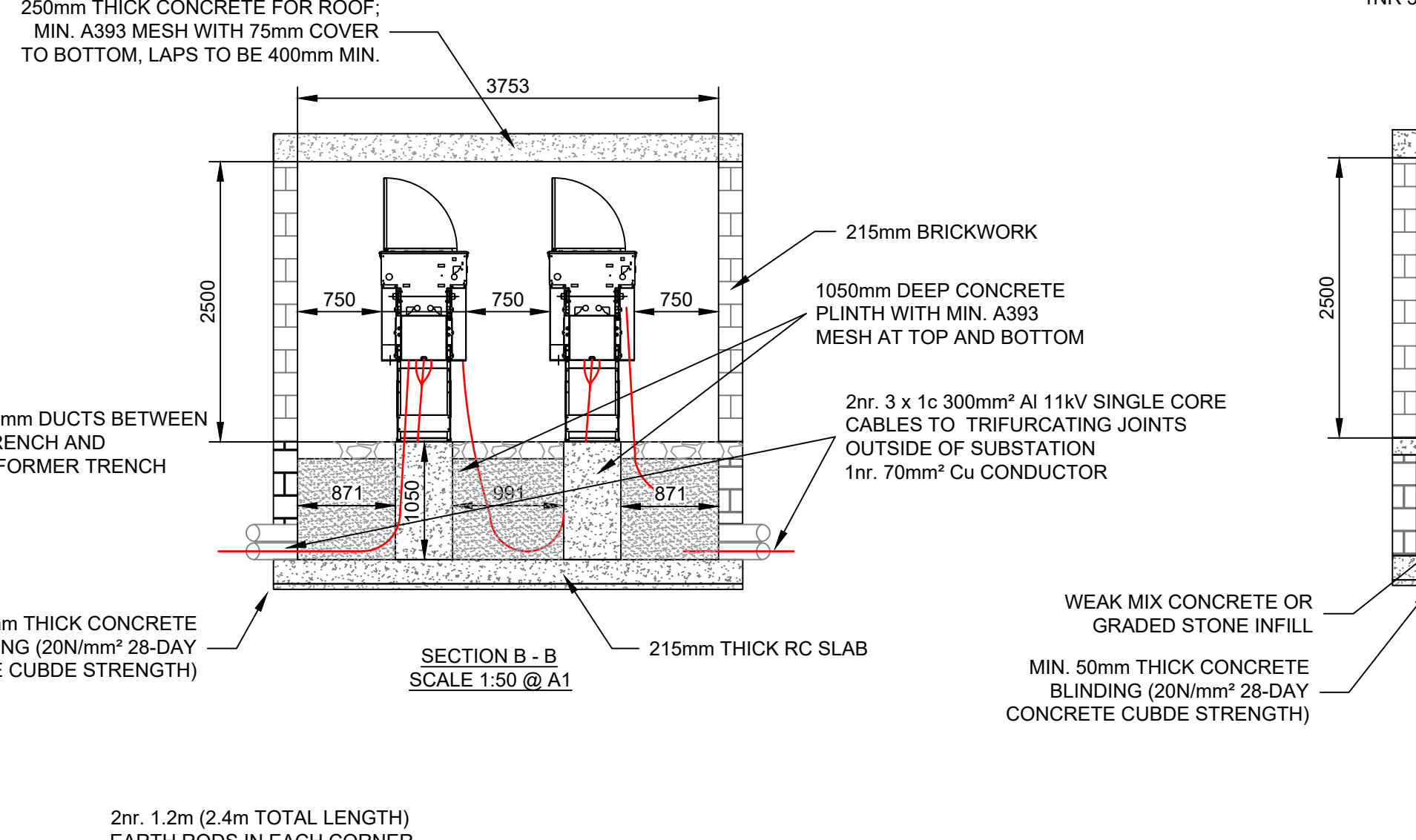
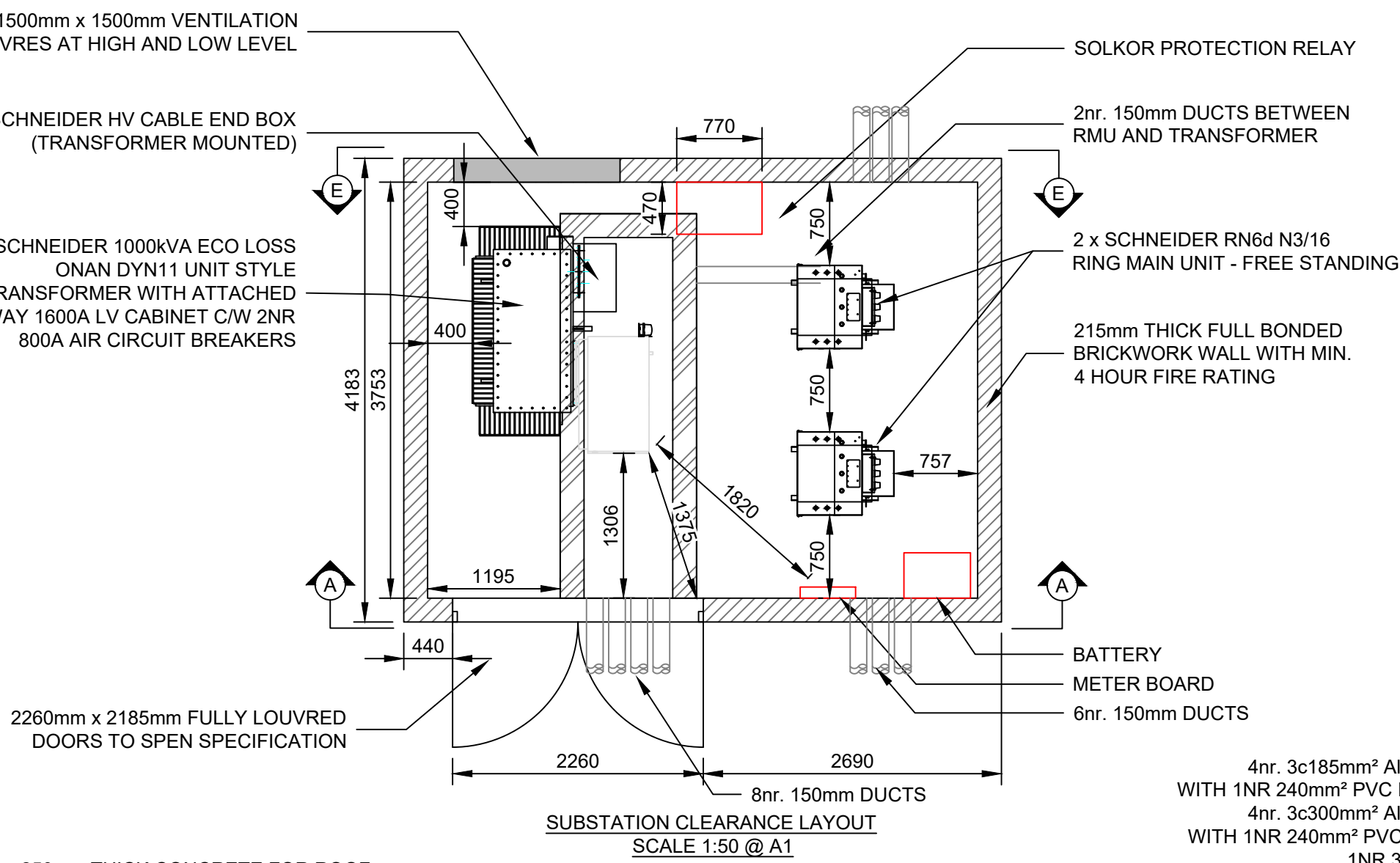
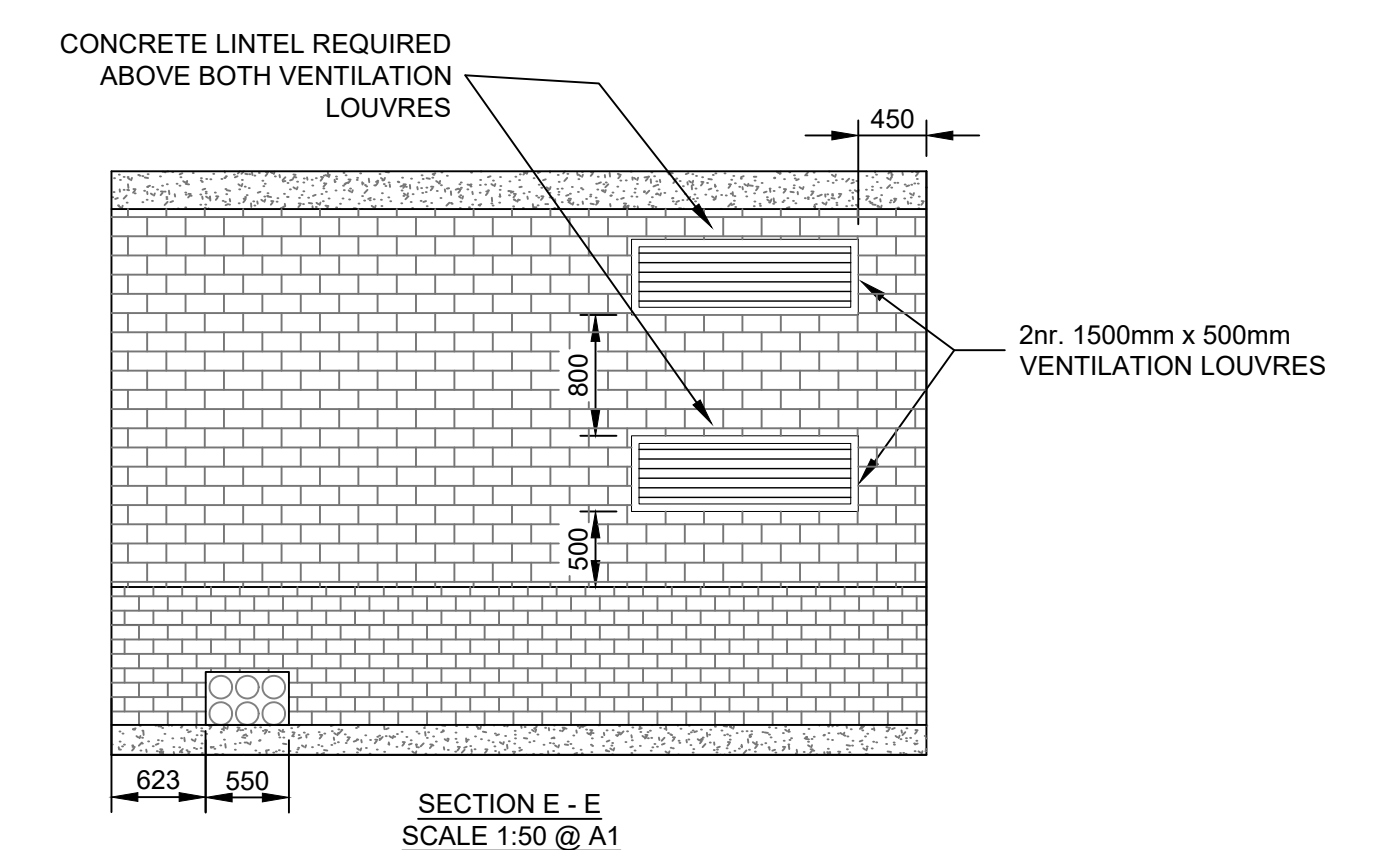
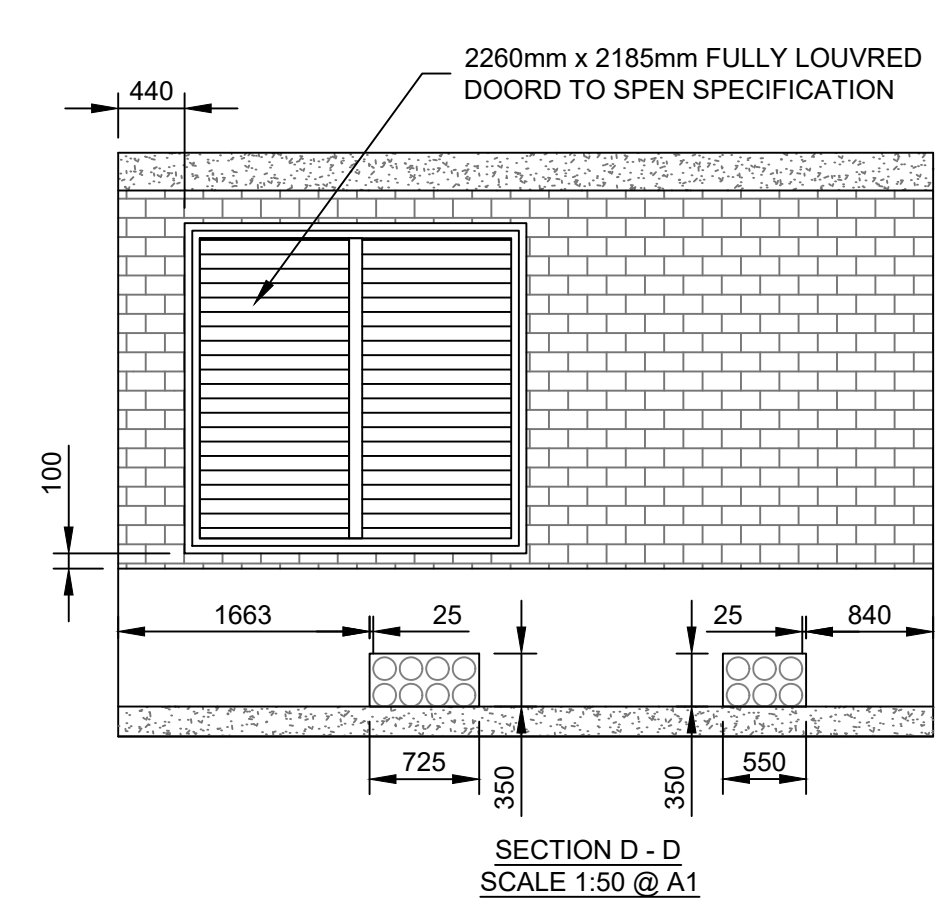
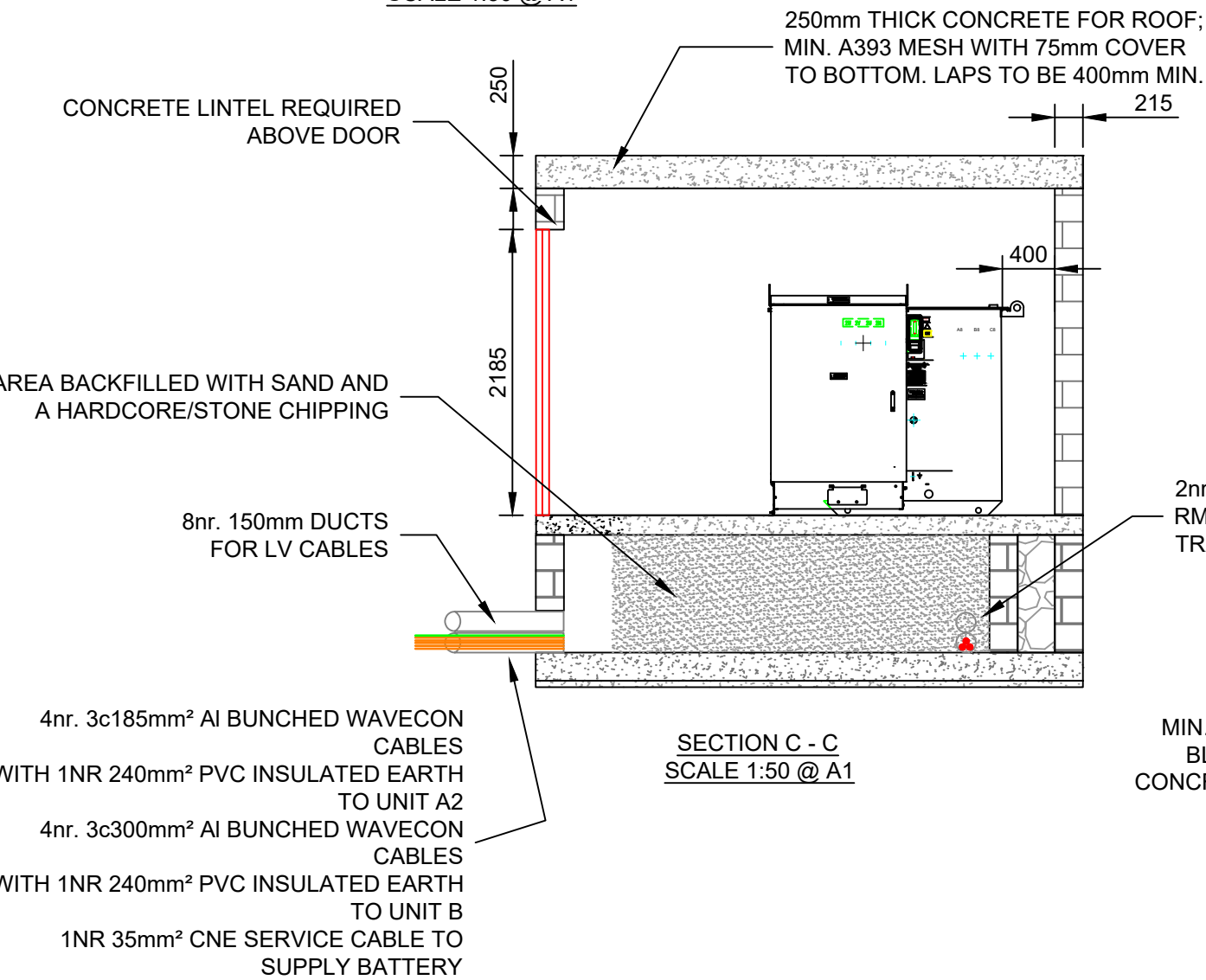
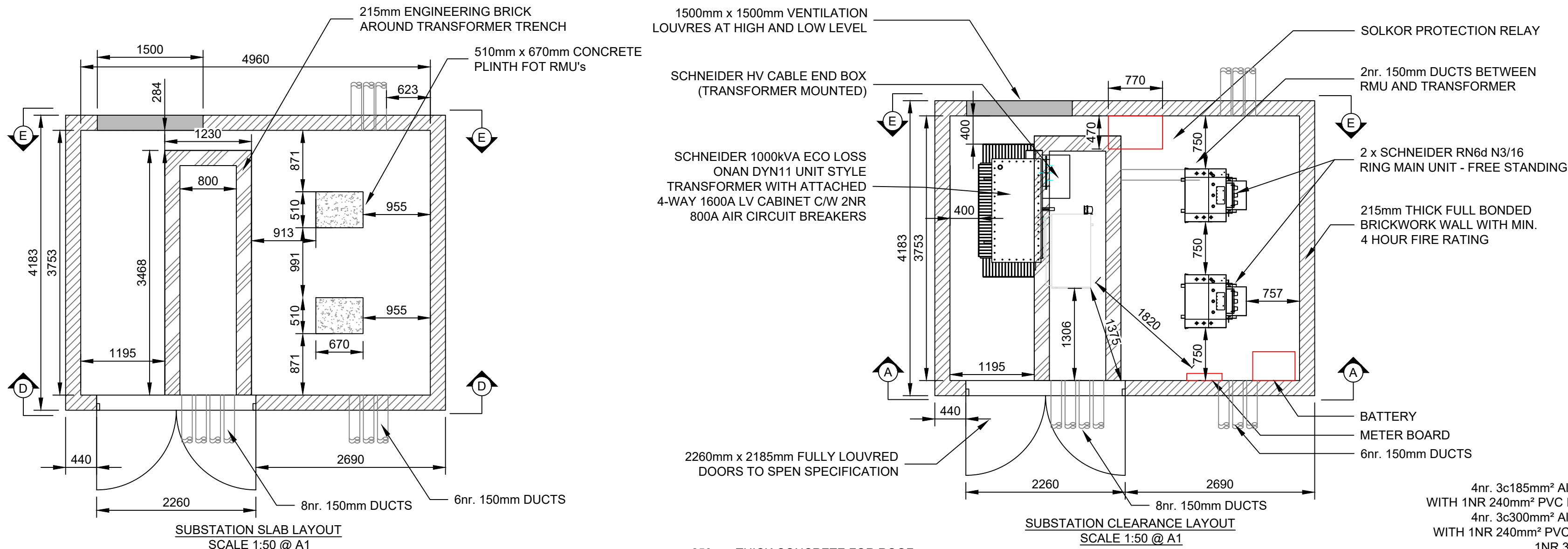




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 - FOUNDATIONS BELOW THE SUBSTATION FOUNDATION SLAB TO BE BUILT IN LINE WITH STRUCTURAL ENGINEER'S DETAIL TO SUIT GROUND CONDITIONS.
 - FLOOR SLAB CONCRETE STRENGTH TO BE A MIN. OF 35N/mm² 28 DAY CUBE STRENGTH.
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- ROOF
- TO STRUCTURAL ENGINEER'S DETAIL, DETAIL PROVIDED FOR PERUSAL.
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- WALLS
- CONSTRUCTED OF 215mm FULLY BONDED BRICKWORK TO BS EN 771-1 Laid English Bond. BRICKS FROGGED 25mm MIN. COMPRESSIVE STRENGTH, WITH NEAT STRUCK JOINTS. WALLS TO PROVIDE FLUSH FINISH INTERNALLY.
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 - DOUBLE DOORS SECURED INTERNALLY WITH STANDARD PADLOCK FREE ISSUE BY SPEN/ AUL.
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 - APPROVED LOUVRED VENTS ARE MADE OF MILD STEEL, FULLY WELDED INTO AN ANGLE FRAME AND SECURED INTERNALLY BY SUITABLE ANCHOR FITTINGS INTO THE BRICKWORK (STANDARD COLOUR GREEN 14-C-20).
 - MASTIC POINTING TO FRAME SURROUNDS EXTERNALLY.
 - VENTS SHALL BE LOCATED TO PROMOTE NATURAL VENTILATION OF THE SUBSTATION.

- DUCTS
- NUMBER OF DUCTS TO BE INSTALLED IS AS PER ON THE DESIGN.
 - 150mm RED DUCTS TO BE INSTALLED (SPEN/ AUL SPECIFICATION) FOR BOTH HV AND LV.

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- FLOOR TO RECEIVE TWO COATS OF GREY CONCRETE FLOOR PAINT.
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- EARTHING
- EARTHING TO BE AS SHOWN IN DRAWING ON GENERAL ARRANGEMENT DRAWING.

REV	DESCRIPTION	DATE	CHK	APP
1	750mm ALLOWED AROUND RMUs	01.12.25	MG	RP
0	FOR APPROVAL	27/05/2025	GB	GB

ipsum

Ipsium Power (ICP) Ltd
183 Cross Street, Sale
Manchester
M33 7JG
Tel: 0161 969 6189

Client	DAVOS INDUSTRIAL LTD
Project	SOVEREIGN BUSINESS PARK - PHASE 2 LIVERPOOL

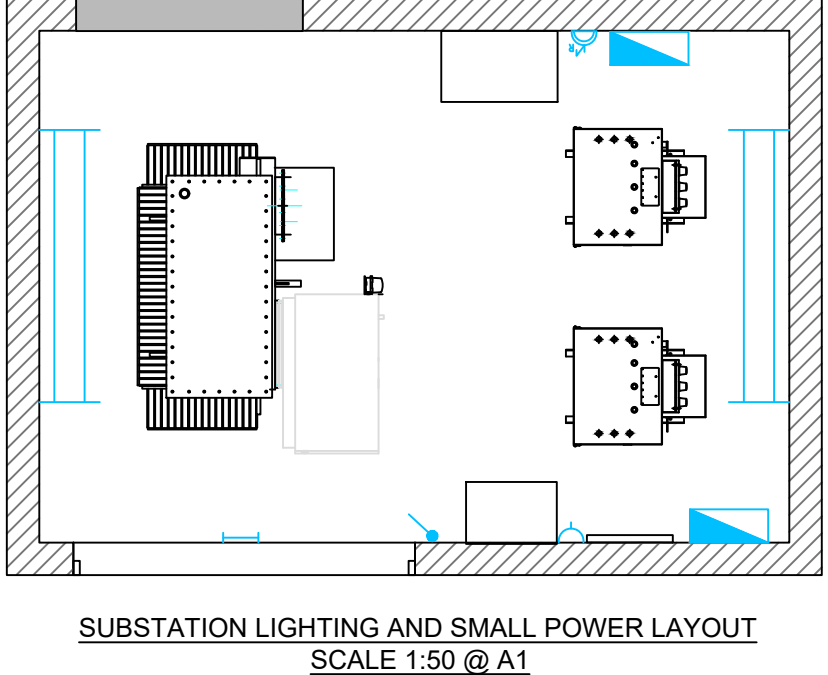
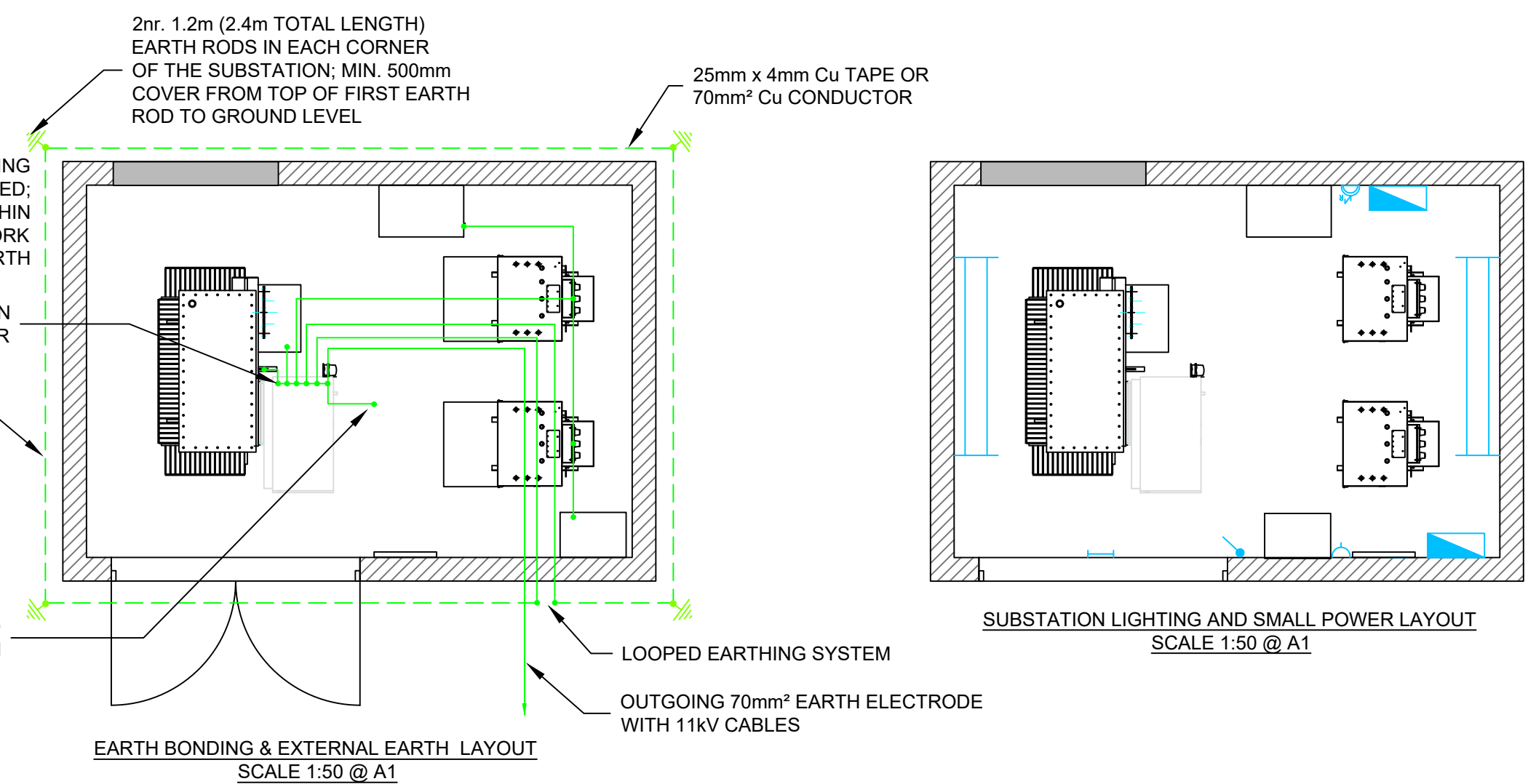
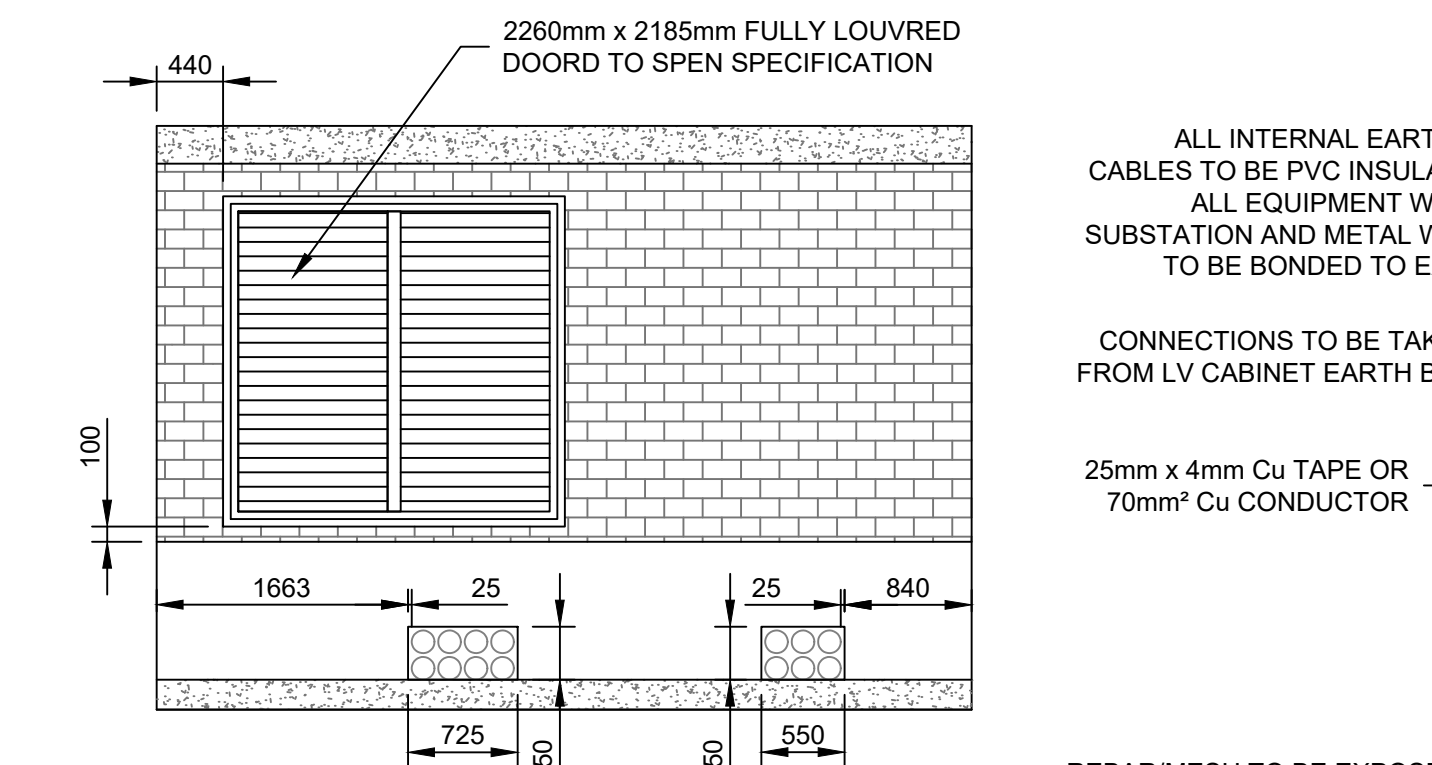
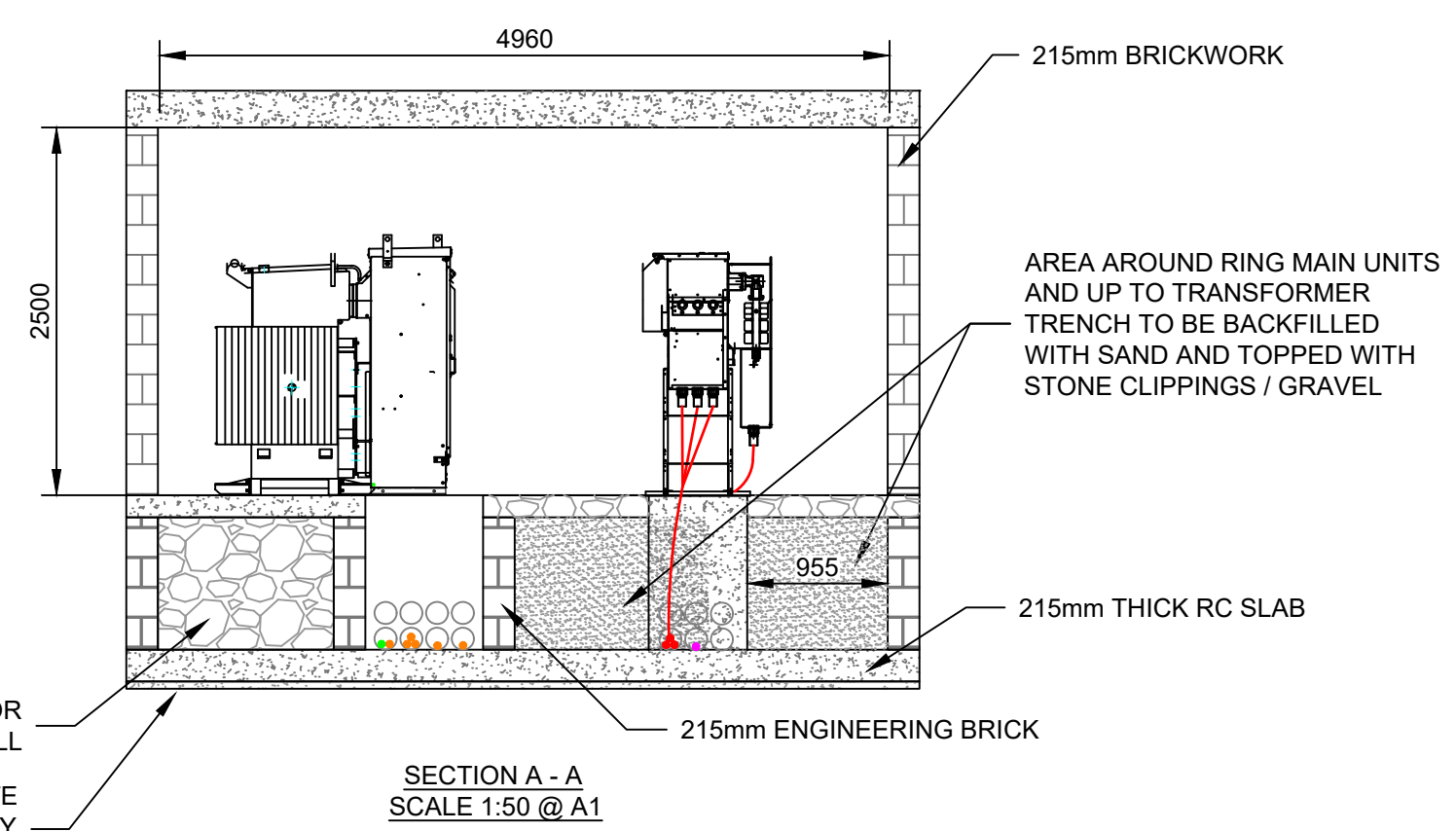
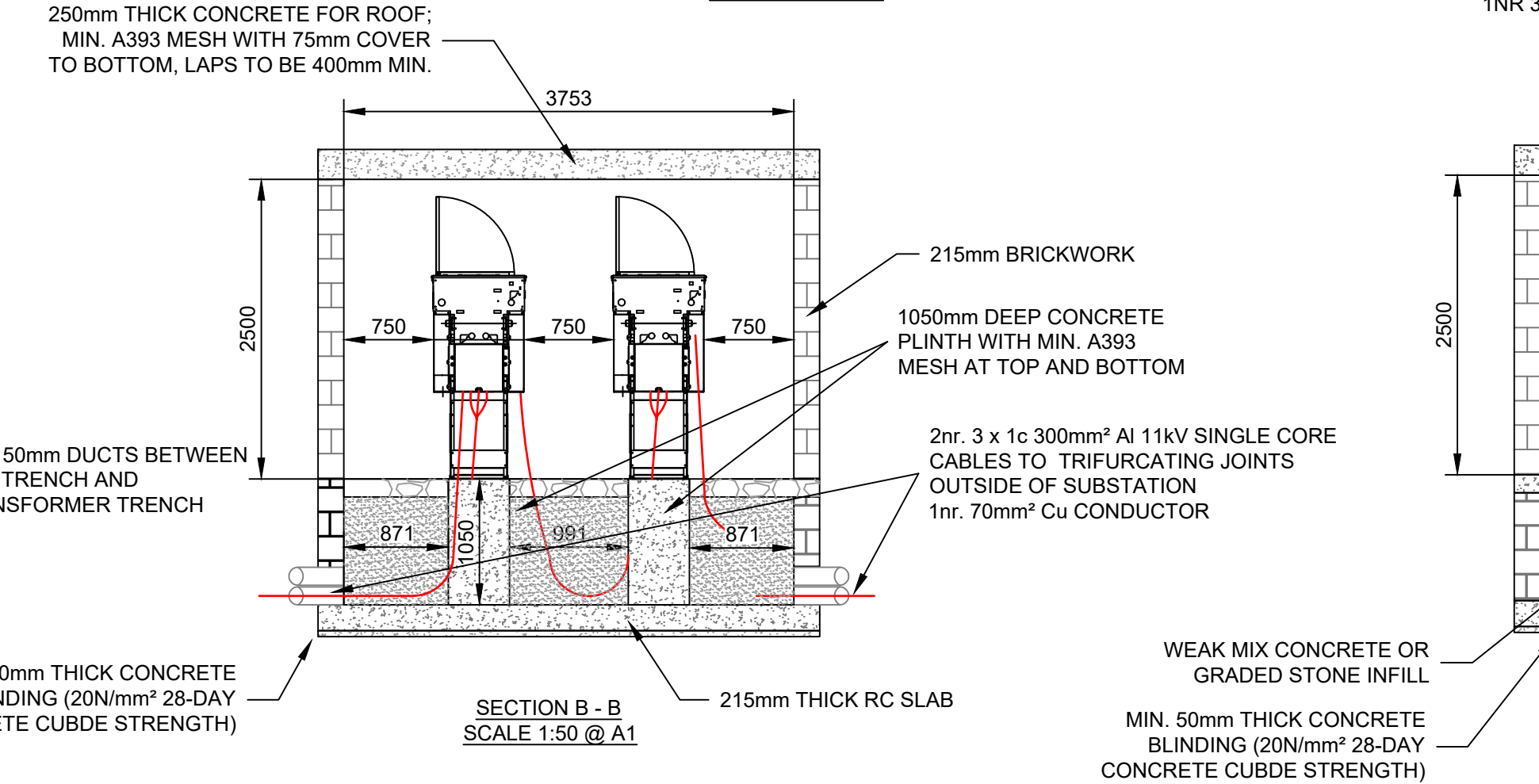
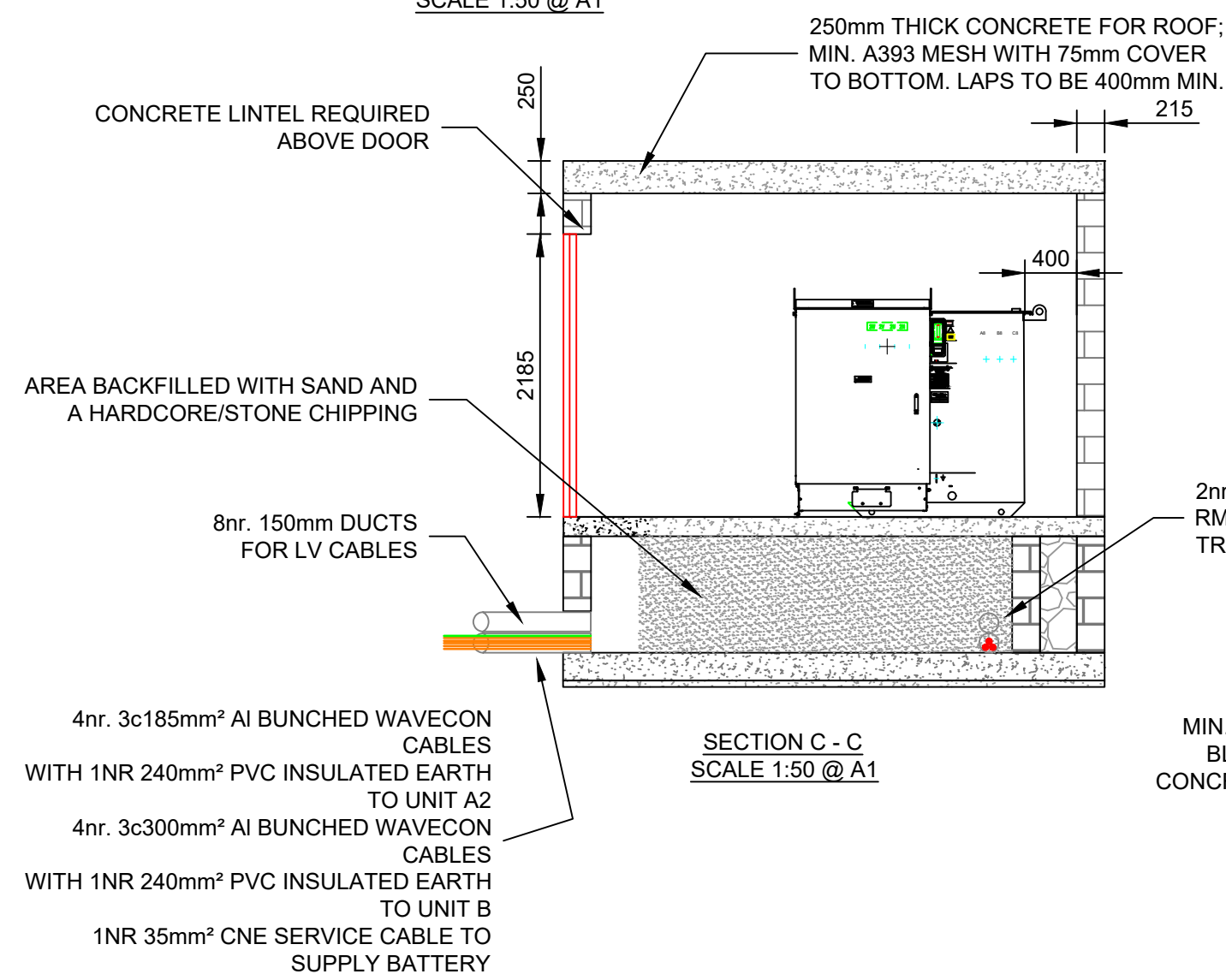
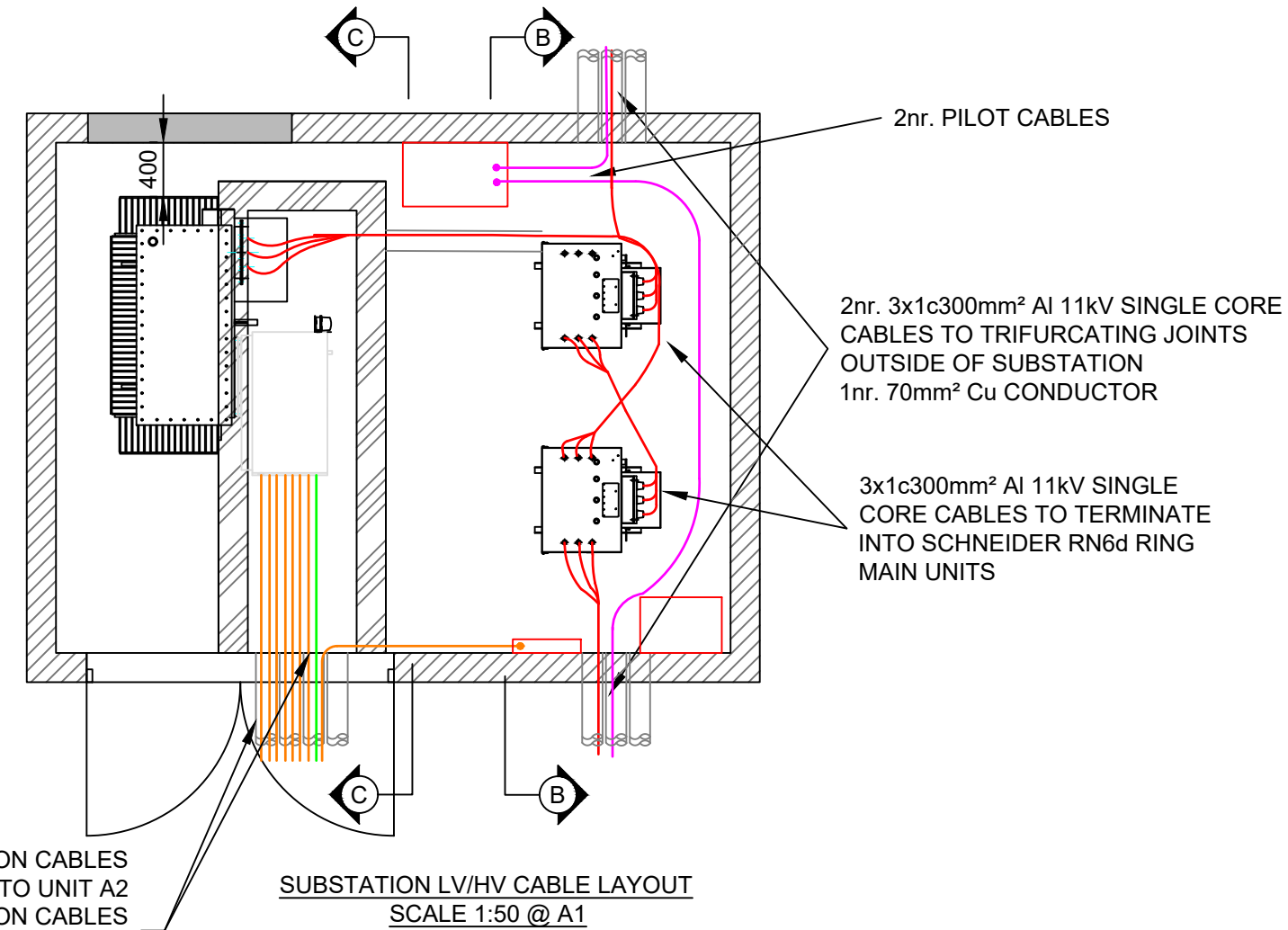
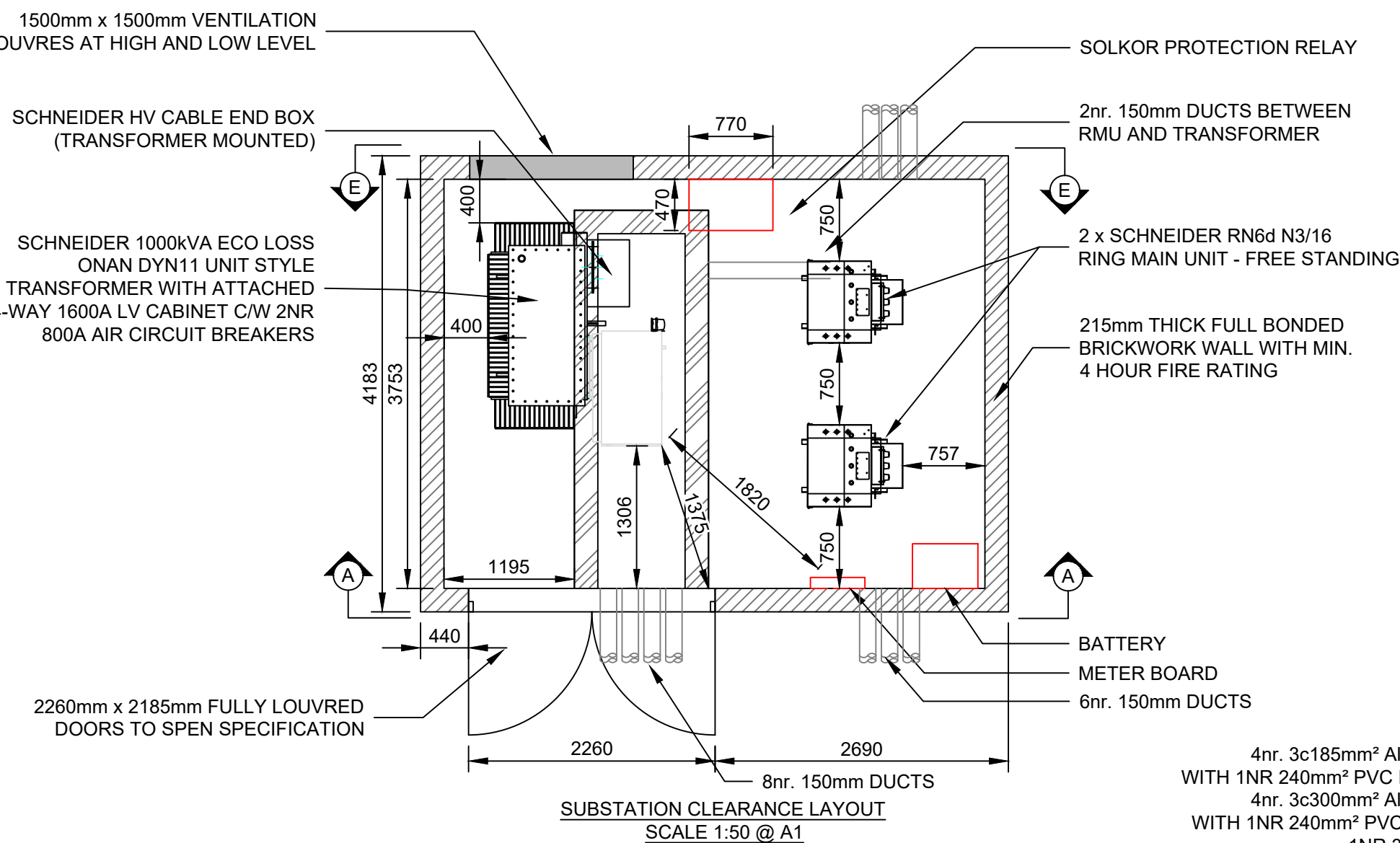
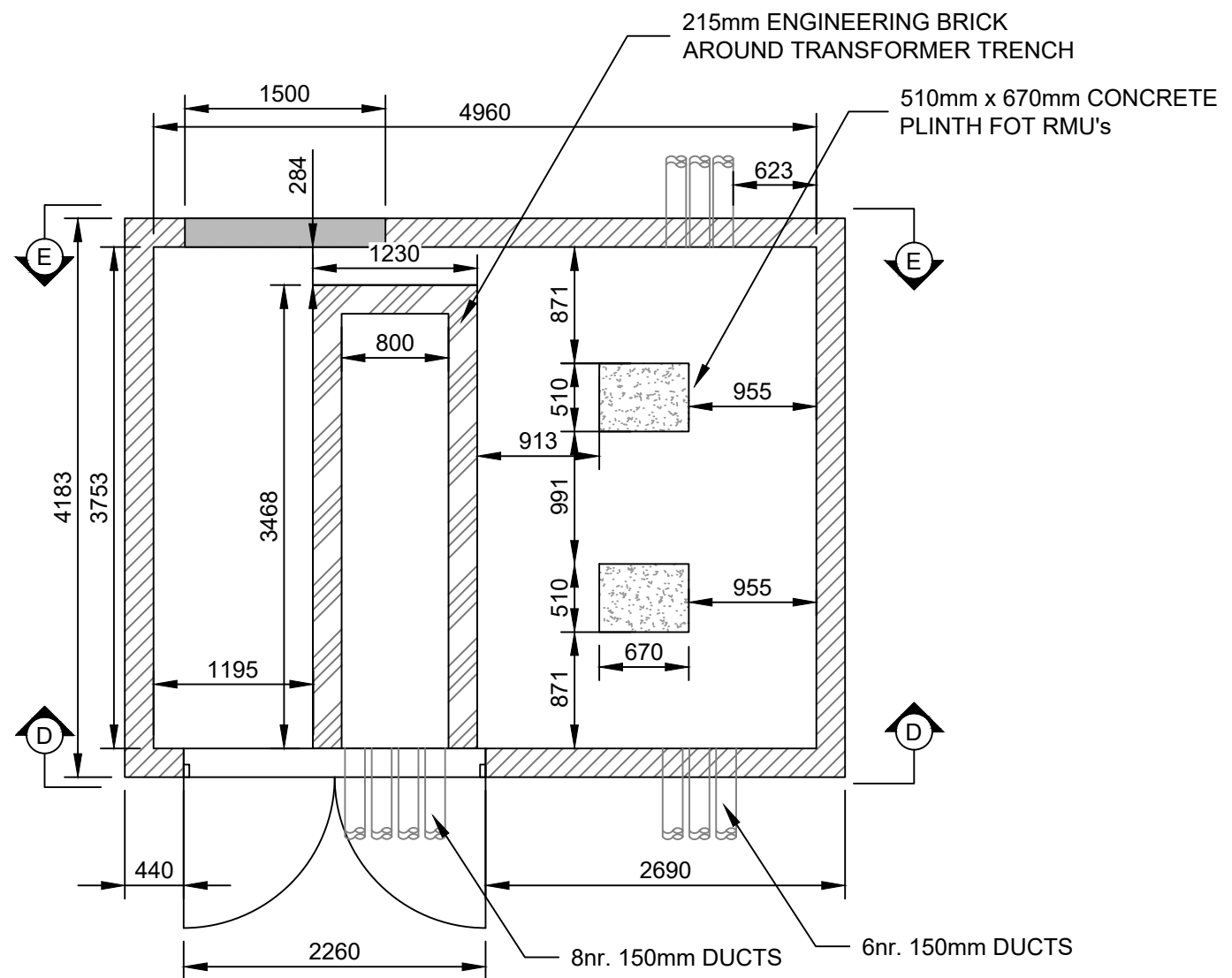
Title
**SUBSTATION CIVIL & EARTHING
GENERAL ARRANGEMENT DRAWING
IDNO X TYPE ARRANGEMENT**

Drawn	BB	Checked	GB	Approved	GB
Scale	1:50 @ A1	Drg. No.	N23-159-SUB.01	Rev.	0
Date	27/05/2025				

APPROVED

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TOGETHER WITH A SCHEDULE OF TEST RESULTS AS DETAILED IN BS 7671 SHALL BE FORWARDED TO UK POWER NETWORKS.



- BULK HEAD LIGHT FITTING TO BE MOUNTED ABOVE DOOR
- LIGHT SWITCH MOUNTED 1200mm ABOVE FFL
- 13A TWIN SWITCHED SOCKET IP55 WITH 30mA RCD WITH OPERATING TIME OF 30ms MOUNTED 450mm ABOVE FFL
- 58w IP65 RATED FLUORESCENT FITTINGS MOUNTED ON CEILING
- IP55 INSULATED CONSUMER UNIT - 6 WAY - SUPPLIED FROM LV CABINET
- 13A UNSWITCHED FUSE SPUR FOR BATTERY UNIT

- LIGHTING AND POWER**
 - THE LIGHTING AND POWER REQUIREMENTS ARE SUMMARISED BELOW
 - ALL WORK AND TESTING SHALL BE CARRIED OUT BY SUITABLY COMPONENT OPERATIVES IN ACCORDANCE WITH BS 7671
 - ALL ACCESSORIES AND ACCESSORY MOUNTING BOXES OR ENCLOSURES SHALL BE IP65 SURFACE MOUNTED FROM THE MK MASTER SEAL RANGE OR EQUIVALENT
- POWER SUPPLY OPTIONS**
 - MINIMUM 6mm² 3 CORE SWA LS0HLSF FROM THE LV CABINET/BOARD 32A AUXILIARY SUPPLY TERMINALS (IDNO SUPPLY) AND 35mm² SERVICE FROM LV PILLAR OR LV DISTRIBUTION NETWORK (IDNO SUPPLY). ALL SUPPLIES SHALL BE TERMINATED IN A 100A CUT-OUT FUSED AT 32A.
- DISTRIBUTION BOARD**
 - THE DISTRIBUTION BOARD SHALL BE INSULATED SINGLE-PHASE AND NEUTRAL (TO BS EN 60439-3 & BS 5486-12) WITH A MINIMUM OF 5 WAYS AND INCLUDE:
 - A 100A/125A DOUBLE-POLE (PHASE AND NEUTRAL DISCONNECTOR WITH 10KA BREAKING CAPACITY (TO BS EN 60847)
 - RCD30s (TO BS EN 61009-1) AND MCBs (TO BS EN 60898-2) WITH 10KA BREAKING CAPACITY
 - 20A RCBO FOR THE 13A SOCKET OUTLET CIRCUIT
 - 6/10A MCB FOR THE LIGHTING CIRCUIT
 - 10A MCB FOR THE BATTERY CHARGED UNIT'S UNSWITCHED FUSE SPUR
 - A SPARE WAY COMPLETE WITH BLANKING PLATE FOR FUTURE USE
 - THE DISTRIBUTION BOARD SHALL BE MOUNTED AT HEIGHT OF 1200mm TO 1450mm ABOVE FINISHED FLOOR LEVEL.
- INTERNAL LIGHTING**
 - THE SUBSTATION SHALL HAVE A MINIMUM LUMINANCE OF 300 LUX IN ACCORDANCE WITH HSE HSG38 PROVIDED BY A MINIMUM OF TWO LIGHT FITTINGS ON OPPOSITE SIDES OF THE SUBSTATION
 - THE LIGHT FITTINGS SHALL BE POSITIONED TO AVOID SHADOWS WHEN EQUIPMENT DOORS ARE OPEN
 - ALL LIGHT FITTINGS SHALL BE MOUNTED ON THE CEILING
 - GENERAL PURPOSE LIGHT FITTINGS SHALL BE OF THE FLUORESCENT IMPACT AND CORROSION RESISTANT TYPE, CORROSION RESISTANT WITH A POLYCARBONATE PRISMATIC DIFFUSER (TO BS EN 60598-1) AND SHALL HAVE A MINIMUM DEGREE OF PROTECTION OF IP65. THE PREFERRED SIZE IS A 1500mm TWIN LAMP FITTING
 - LIGHT FITTINGS SHALL BE FITTED WITH 35W OR 40W T5 OR T8 LINEAR FLUORESCENT TUBES OF THE HIGH FREQUENCY ENERGY EFFICIENT TYPE (TO BS EN 60081) OR EQUIVALENT LED ALL LAMPS SHALL HAVE CAPS OF IP65 TYPE AND MINIMUM COLOUR TEMPERATURE OF 3500K (A WHITE APPEARANCE)
 - LIGHT FITTINGS SHOULD BE CONNECTED VIA A PLUG IN ROSE (OR SIMILAR) TO AID FUTURE MAINTENANCE. A PROTECTIVE CONDUCTOR SHALL BE CONNECTED TO THE EARTH TERMINAL OF EACH FITTING
 - A SURFACE MOUNTED LIGHT SWITCH WITH NEON INDICATOR SHALL BE POSITIONED ADJACENT TO THE SUBSTATION DOOR. SUBSTATIONS WITH MULTIPLE POINTS OF ACCESS SHALL HAVE A LIGHT SWITCH ADJACENT TO EACH DOOR AND SHALL BE WIRED WITH 2 WAY LIGHTING
 - ALL LIGHT SWITCHES SHALL BE MOUNTED AT 1400mm ABOVE FINISHED FLOOR LEVEL
- EMERGENCY LIGHTING**
 - AN EMERGENCY LIGHT (TO BS EN 1838 AND BS 5266) SHALL BE PROVIDED AT EACH EXIT DOOR. AN ADDITIONAL EMERGENCY LIGHT SHALL BE INSTALLED WHERE THERE IS AN OPEN LV BOARD
 - EMERGENCY LIGHTS SHALL HAVE A MINIMUM LUMINANCE OF 1 LUX AND SHALL BE THE INTEGRAL, SELF-CONTAINED TYPE (TO BS EN 60598-2-22) INCORPORATING A FLUORESCENT LAMP (OR LED EQUIVALENT) AND A POLYCARBONATE DIFFUSER. THE RATED DURATION OF EMERGENCY LIGHTS SHALL BE 3 HOURS
 - ABOVE DOOR EMERGENCY LIGHT SHALL INCLUDE AN EXIT LEGEND PLATE
 - LIGHT FITTINGS SHALL BE IP65 HEAVY DUTY 28W T8 T5 (OR EQUIVALENT LED) BULBHEAD TYPE CONSTRUCTED IN POLYCARBONATE WITH AN IMPACT RESISTANT POLYCARBONATE COVER SEALED TO THE BODY WITH A SILICON RUBBER GASKET AND STAINLESS STEEL CAPTIVE FIXING SCREWS
 - ALL EXTERNAL LIGHTING SHALL BE CONTROLLED BY PHOTOELECTRIC CONTROL UNITS (TO BS 5972) AND PIR MOVEMENT DETECTORS
- CONDUIT, TRUNKING AND TRAYS**
 - ALL CABLES SHALL BE INSTALLED IN MINIMUM 20mm CONDUIT SIZED IN ACCORDANCE BS 7671
 - ALL CONDUIT, BOXES AND FITTING SHALL BE HIGH IMPACT, NON-FLAME PROPAGATING, SELF-EXTINGUISHING, HEAVY-DUTY PVC CONDUIT (TO BS EN 61386-1). DIMENSIONS SHALL COMPLY WITH BS EN 60423
 - THERE SHALL BE SUFFICIENT JUNCTION BOXES, DRAW-IN BOXES AND INSPECTION FITTINGS INSTALLED TO ALLOW CABLES TO BE INSPECTED, WITHDRAWN AND REPLACED IF NECESSARY. THE COMPLETE INSTALLATION SHALL BE ARRANGED USING A LOOP-IN TYPE SYSTEM WITH JOINTS BEING CARRIED OUT AT SWITCHES, ISOLATORS OR APPLIANCE FITTINGS
 - ALL ADAPTABLE BOXES AND ACCESSORIES SHALL MATCH THE CONDUIT AND SHALL BE FITTED WITH EARTHING TERMINALS
 - JOINTS BETWEEN CONDUITS MAY BE PUSH-FIT ARRANGEMENT ALONE IS NOT ACCEPTABLE
 - ALL CONDUIT SHALL BE SECURED USING MATCHING DISTANCE SADDLES SPACED AT A MAXIMUM DISTANCE OF 750mm AND 200mm FROM ANY BEND, JOINT OR ACCESSORY. ALL BOXES AND ACCESSORIES SHALL BE SECURED INDEPENDENTLY
- LABELLING**
 - ALL LABELLING SHALL COMPLY WITH BS 7671
 - ALL DISTRIBUTION BOARD WAYS SHALL BE PERMANENTLY LABELLED TO IDENTIFY CIRCUIT FUNCTION, CABLE SIZE AND PROTECTIVE DEVICE RATING

- TOGETHER WITH A SCHEDULE OF TEST RESULTS AS DETAILED IN BS 7671 SHALL BE FORWARDED TO UK POWER NETWORKS.

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APPROVED

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0	FOR APPROVAL	27/05/2025	GB	GB



Ipsum Power (ICP) Ltd
183 Cross Street, Sale
Manchester
M33 7JG
Tel: 0161 969 6189

Client	DAVOS INDUSTRIAL LTD			
Project	SOVEREIGN BUSINESS PARK - PHASE 2 LIVERPOOL			
Title	SUBSTATION CIVIL & EARTHING GENERAL ARRANGEMENT DRAWING IDNO X TYPE ARRANGEMENT			
Drawn	BB	Checked	GB	Approved GB
Scale	1:50 @ A1	Drg. No.	N23-159-SUB.02	
Date	27/05/2025	Rev.	0	