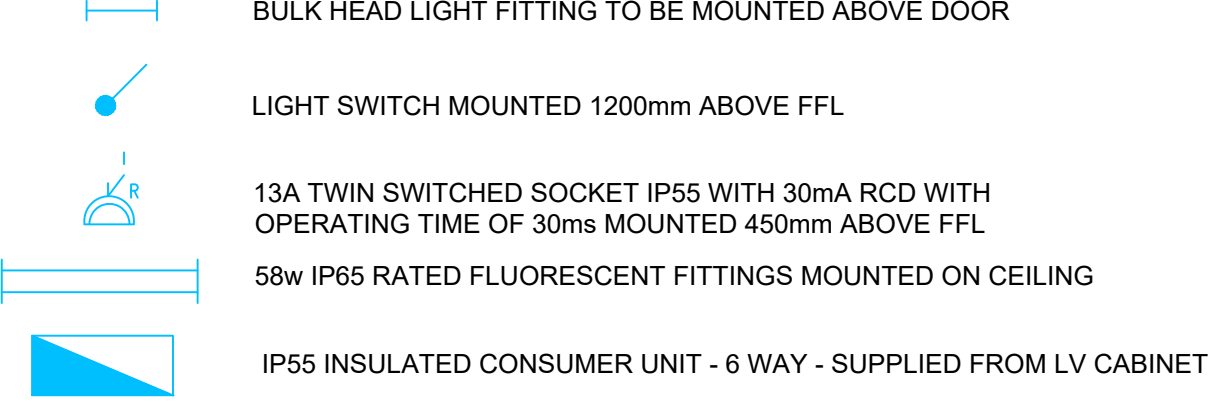
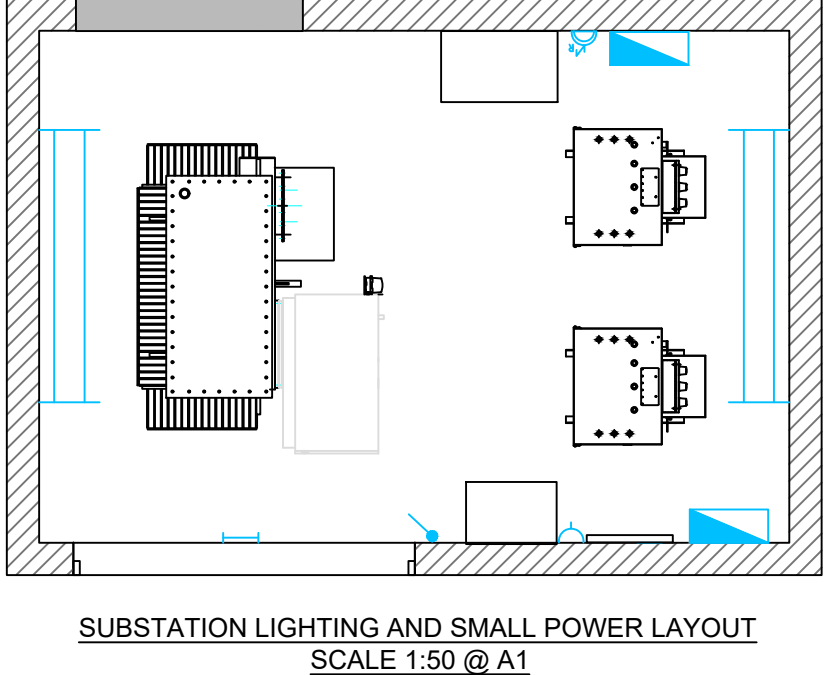
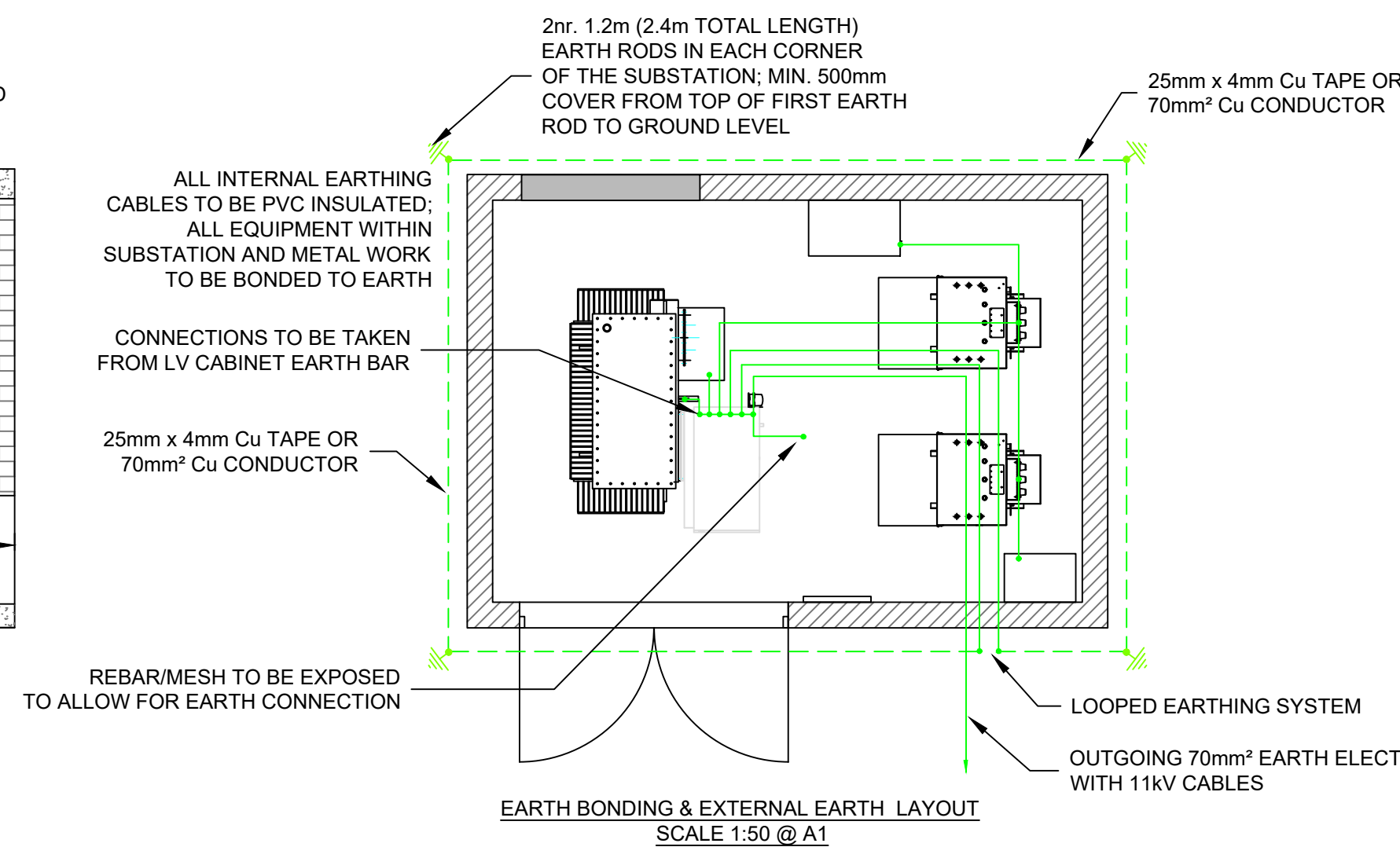
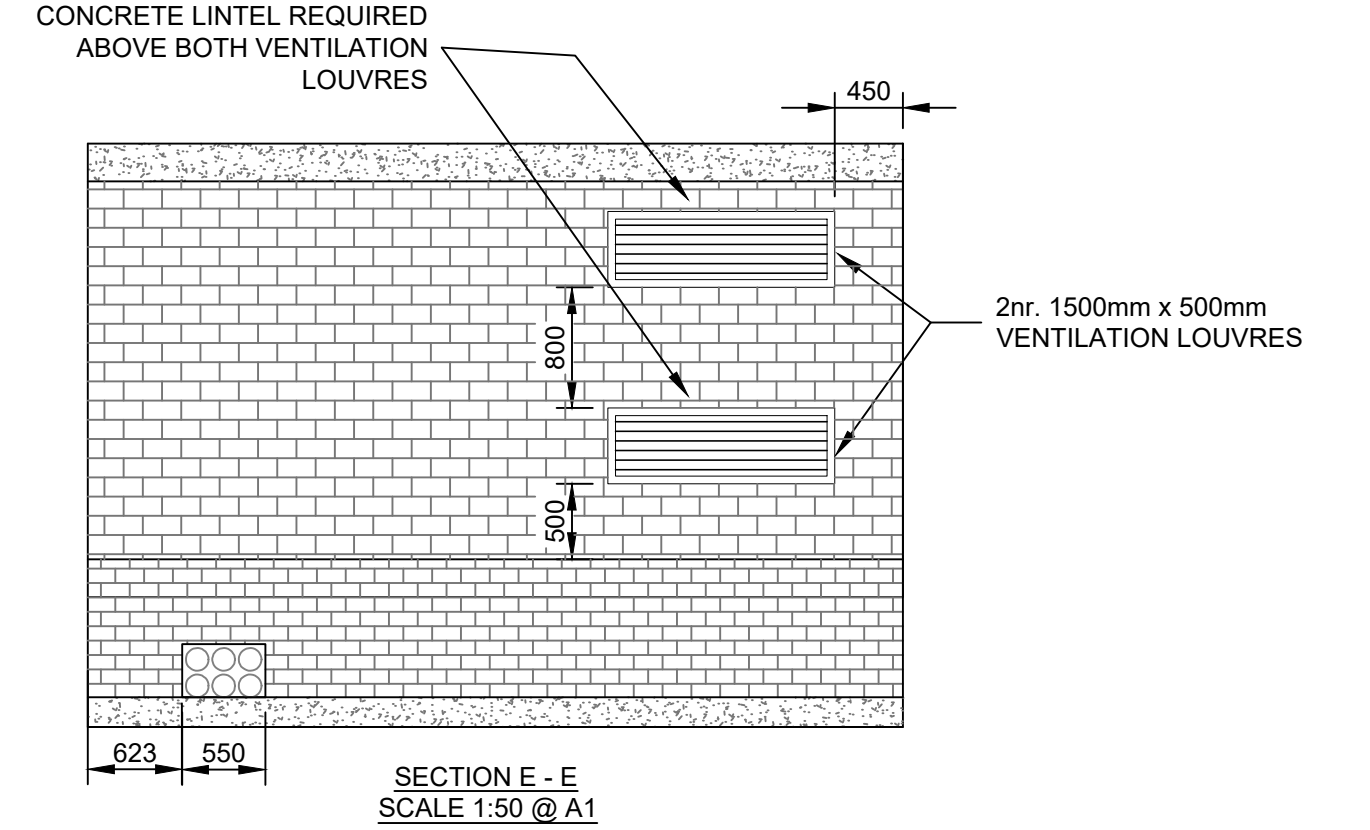
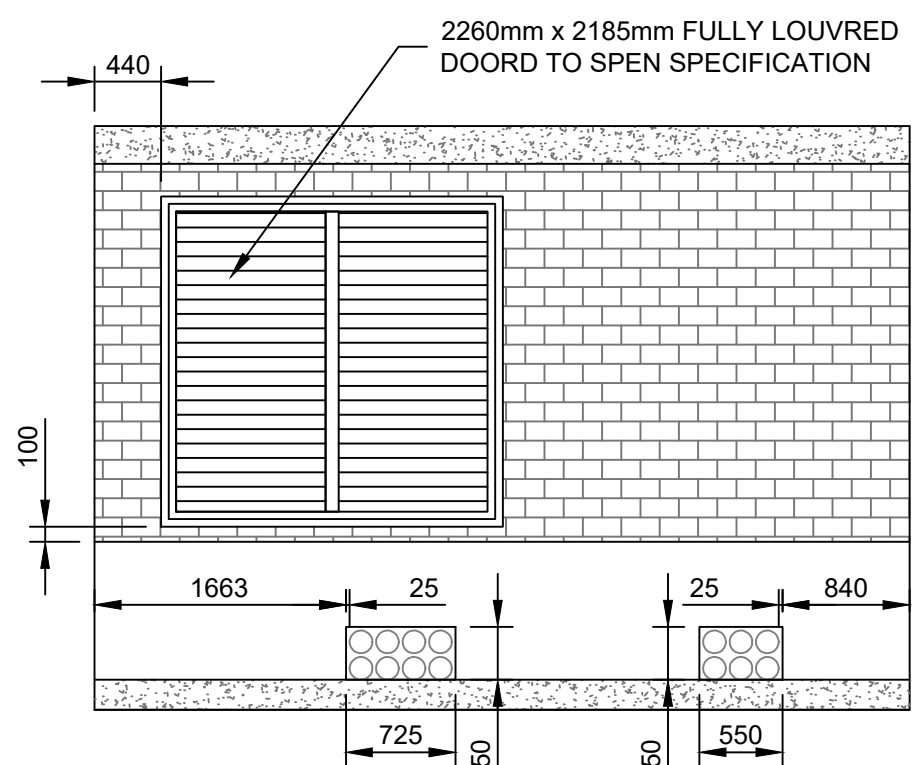
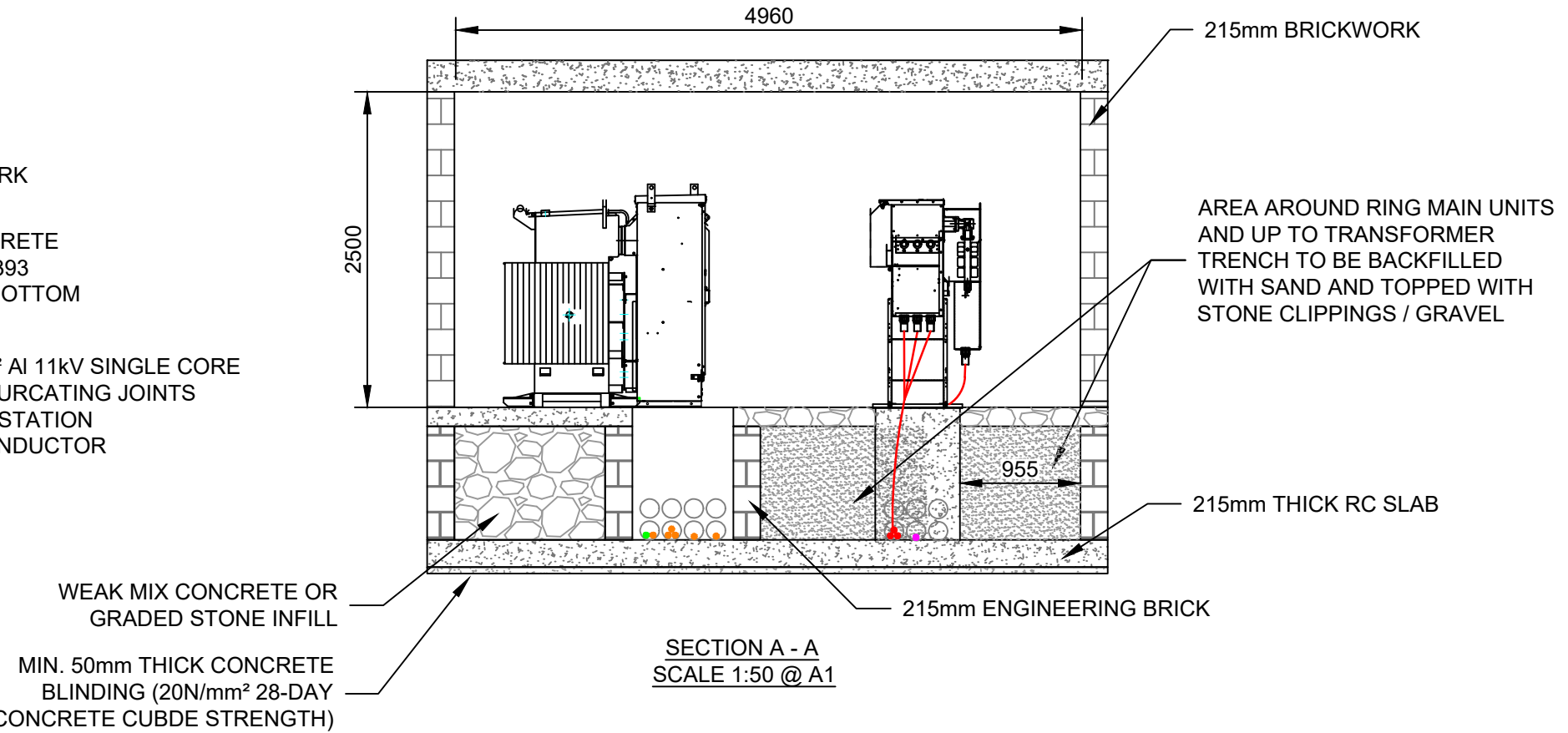
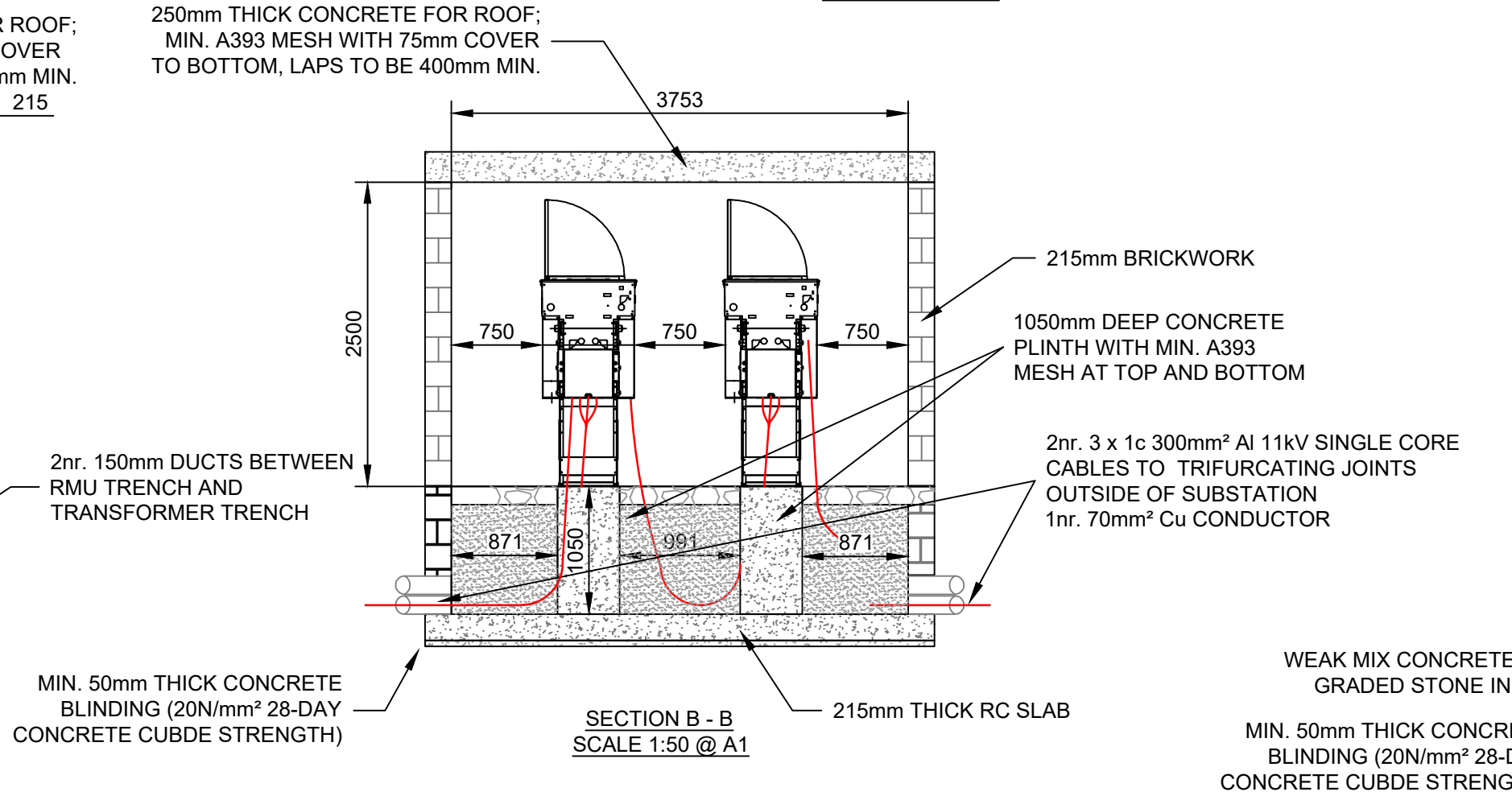
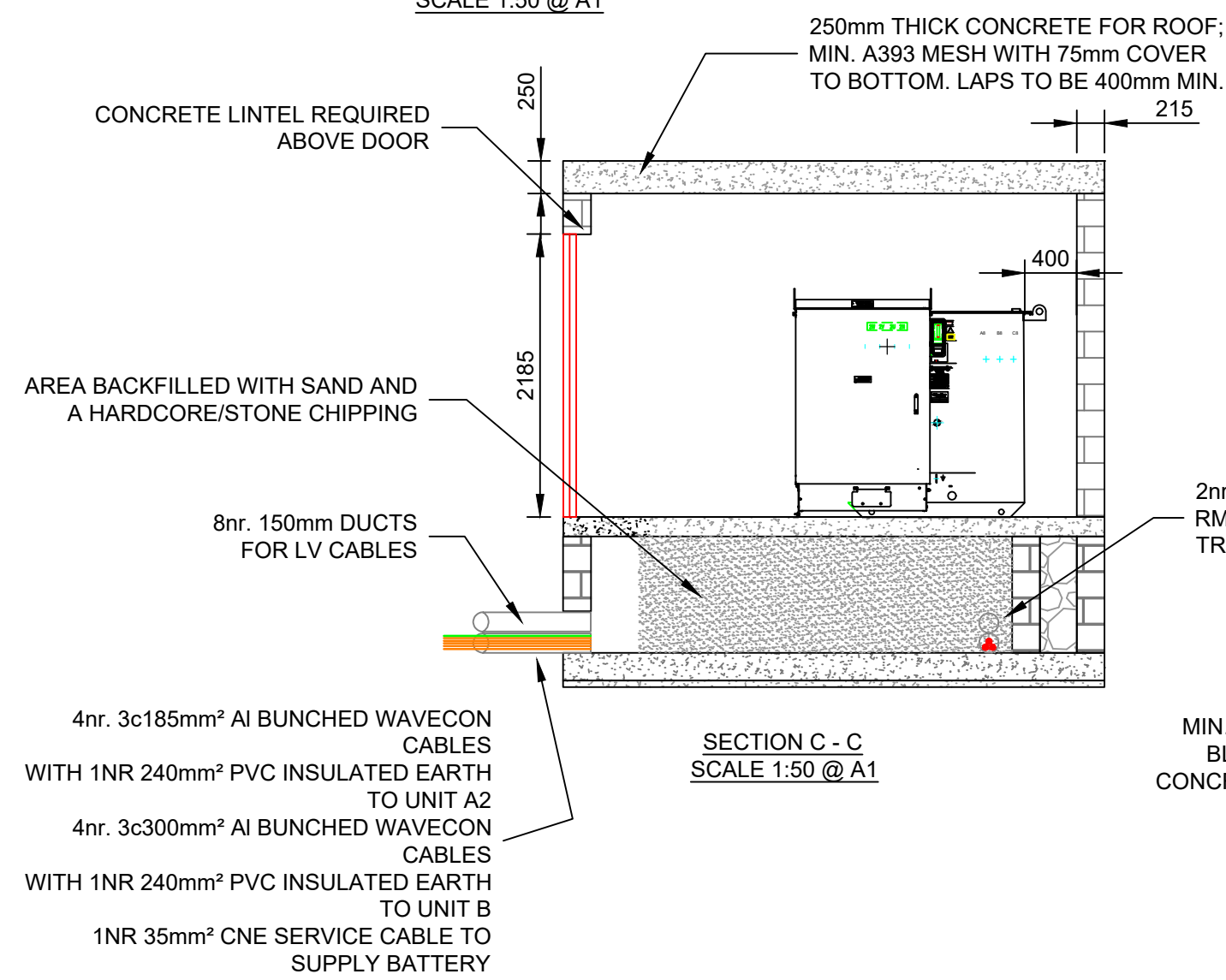
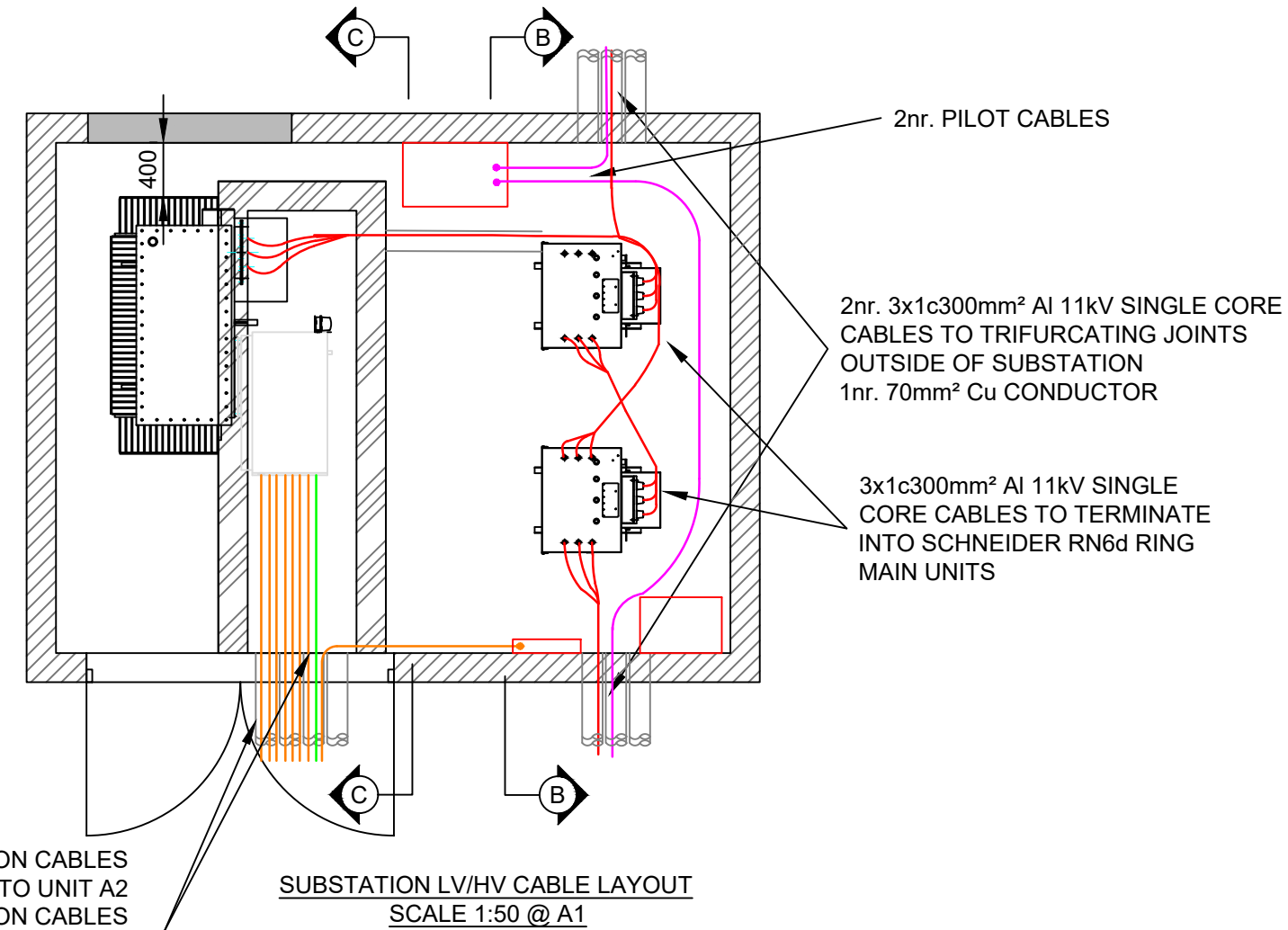
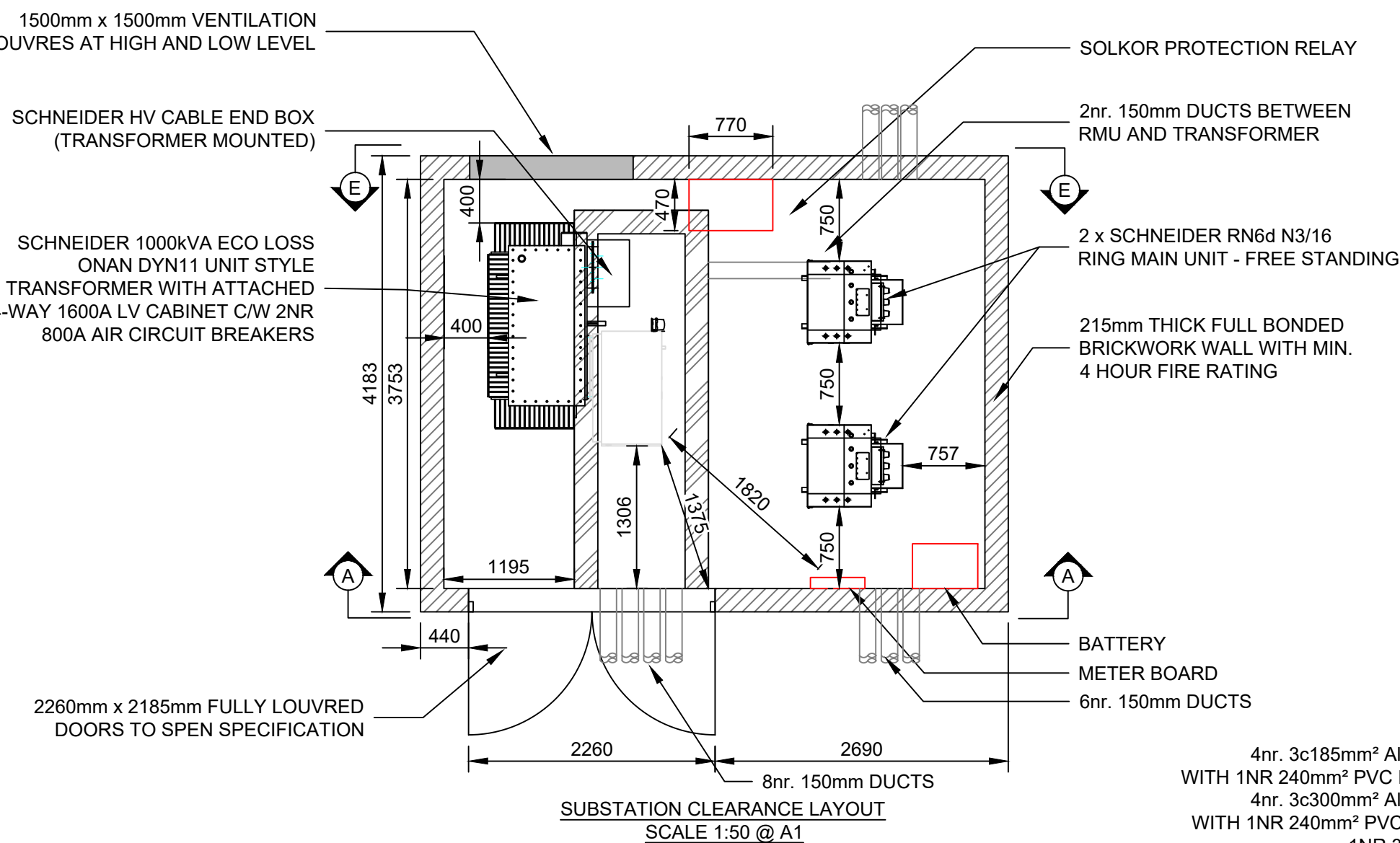
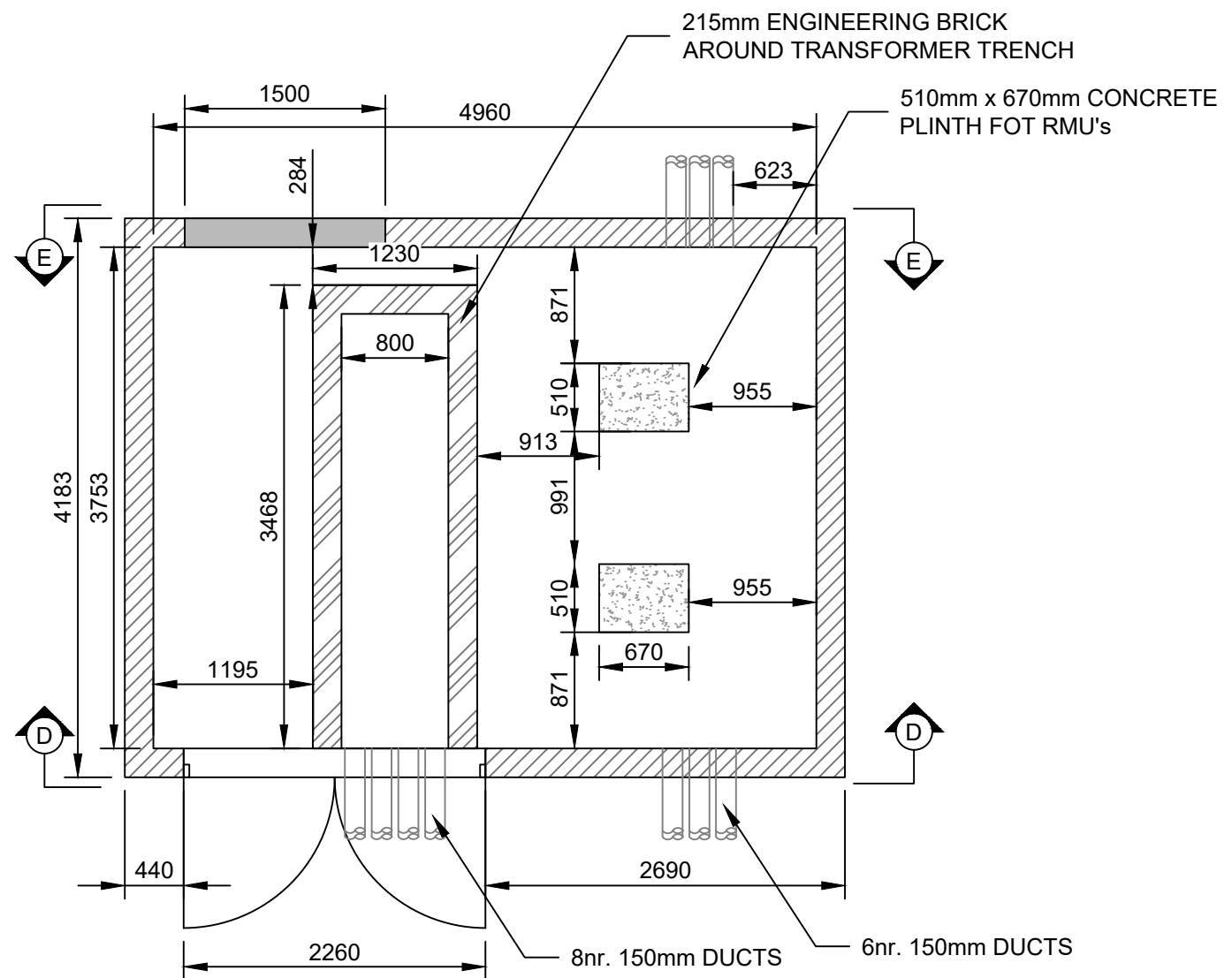




FOR APPROVAL

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- GENERAL NOTES:
- DO NOT SCALE FROM THIS DRAWING. NO VARIATION TO THE STATED DIMENSIONS OR MATERIALS WILL BE PERMITTED WITHOUT PRIOR WRITTEN CONSENT FROM SCOTTISH POWER ENERGY NETWORKS (SPEN) OR AURORA UTILITIES LTD (AUL). ALL DIMENSIONS ARE IN MILLIMETERS
 - THE RUNNING OF HEATING, GAS, TELECOMS, WATER AND OTHER SERVICES THROUGH OR UNDER THE SUBSTATION AREA IS NOT PERMITTED
 - WORKMANSHIP AND MATERIALS TO CONFORM TO THE LATEST EDITION OF THE RELEVANT CODES OF PRACTICE OR BRITISH STANDARD AND EUROCODES
 - LOCATION OF THE SITE WILL BE OVERLAIN ON THE ORDINANCE SURVEY MAP AND ADDED ONTO THE PROJECT DRAWING TO BE ISSUED FOR CONSTRUCTION
 - STRUCTURAL STEELWORK WITHIN THE SUBSTATION SHALL BE AGREED UPON BY SPEN/AUL
 - STEELWORK SHALL BE FIREPROOFED TO A FOUR HOUR STANDARD RATING BY ENCASING IN CONCRETE OR BY CLAD IN AN APPROVED FIREPROOF MATERIAL

- PLANNING, LOCATION AND POSITION
- POSITION AND ORIENTATION OF THE SUBSTATION SHALL BE AGREED WITH SPEN/AUL PRIOR TO THE COMMENCEMENT OF ANY BUILDING WORKS ON SITE
 - SUBSTATIONS SHALL BE LOCATED ADJACENT TO A PUBLIC HIGHWAY OR REACHED BY A PRIVATE DEDICATED ACCESS WAY WITH FULL CONTROL AND ASSOCIATED LEGAL RIGHTS
 - THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL PLANNING CONSENTS AND BUILDING REGULATION APPROVALS
 - UNIMPEDED ACCESS FOR SPEN/AUL PERSONNEL IS REQUIRED AT ALL TIMES, 365 DAYS OF THE YEAR (24/7). ANY DOORS OR GATES ON THE ACCESS ROUTE SHALL BE LOCKED WITH SPEN/AUL APPROVED DUAL LOCKING MECHANISM
 - ACCESS VIA 24 HOUR SECURITY IS UNACCEPTABLE
 - PROPOSED SOFT LANDSCAPING ADJACENT TO THE SUBSTATION (E.G. PLANTING SCHEMES) SHALL ALLOW FOR FUTURE PLANT GROWTH WITHOUT COMPROMISING ACCESS OR VENTILATION THROUGH DOORS AND LOUVRES

- FOUNDATIONS, REINFORCED CONCRETE AND TOPPING SCREED
- FOUNDATION TO SUSTAIN WEIGHT OF PLANT IN ANY POSITION WITH REINFORCEMENT TO SUIT SITE CONDITIONS. FOUNDATIONS AND REINFORCEMENT CONCRETE TO STRUCTURAL ENGINEERS REQUIREMENTS AND DETAILS
 - REINFORCED CONCRETE TO BE AS SHOWN ON THE GENERAL ARRANGEMENT DRAWING
 - TOP OF ALL CONCRETE WORKS TO BE FINISHED SMOOTH AND LEVEL WITHIN 20mm OVER 2000mm
 - FOUNDATIONS BELOW THE SUBSTATION FOUNDATION SLAB TO BE BUILT IN LINE WITH STRUCTURAL ENGINEERS DETAIL TO SUIT GROUND CONDITION
 - FLOOR SLAB CONCRETE STRENGTH TO BE A MIN. OF 35N/mm² 28 DAY CUBE STRENGTH
 - REINFORCEMENT SHOULD BE AS PER THE SPECIFICATION WITHIN THE DESIGN BUT BE CONFIRMED BY THE CLIENT'S STRUCTURAL ENGINEER TO BEAR A LOAD OF 5000kN AT ANY POINT
 - CLASS B ENGINEERING BRICK TO BE UTILISED FOR FOUNDATIONS AS SHOWN ON THE GENERAL ARRANGEMENT DRAWING

- ROOF
- TO STRUCTURAL ENGINEER'S DETAIL, DETAIL PROVIDED FOR PERUSAL
 - ALL REINFORCEMENT TO BE AS PER SPECIFICATION WITHIN THE DRAWING
 - HOLLOW BEAMS, PRECAST PLANKS OR LIGHTWEIGHT CONCRETE ON METAL DECKING ARE NOT PERMITTED
 - NO SERVICES OR DRAINAGE FROM ABOVE SHALL PASS THROUGH THE SUBSTATION
- WALLS
- CONSTRUCTED OF 215mm FULLY BONDED BRICKWORK TO BS EN 771-1 Laid English Bond. BRICKS FROGGED 25mm MIN. COMPRESSIVE STRENGTH, WITH NEAT STRUT JOINTS. WALLS TO PROVIDE FLUSH FINISH INTERNALLY
 - ENGINEERING BRICK OR BLOCK ARE NOT PERMITTED

- DOORS
- ONLY SPEN/AUL APPROVED DOORS SHALL BE FITTED
 - DOUBLE DOORS SECURED INTERNALLY WITH STANDARD PADLOCK FREE ISSUE BY SPEN/AUL WHEN USING 8-FOLD DOOR. TO BE SECURED INTERNALLY BY PANIC BARS. HASP AND STAPLE TO EXTERNAL FACE SECURED WITH STANDARD DUAL LOCKING SYSTEM PROVIDED BY SPEN/AUL
 - MASTIC POINTING TO FRAME SURROUNDS EXTERNALLY
 - VENTS SHALL BE LOCATED TO PROMOTE NATURAL VENTILATION OF THE SUBSTATION
- VENTILATION LOUVRES
- ONLY SPEN/AUL APPROVED VENTS SHALL BE FITTED
 - 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
- FINISHES
- FLOOR TO RECEIVE TWO COATS OF GREY CONCRETE FLOOR PAINT
 - WALLS AND CEILINGS TO RECEIVE TWO COATS OF WHITE EMULSION FOR DUST SEALING
 - APPROVED DOORS AND VENTS TO RECEIVE A POWDER COATED FINISH
- 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 Power (ICP) Ltd 183 Cross Street, Sale Manchester M33 7JG Tel: 0161 969 8189			
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.	Rev.
Date	27/05/2025	N23-159-SUB.02 0	