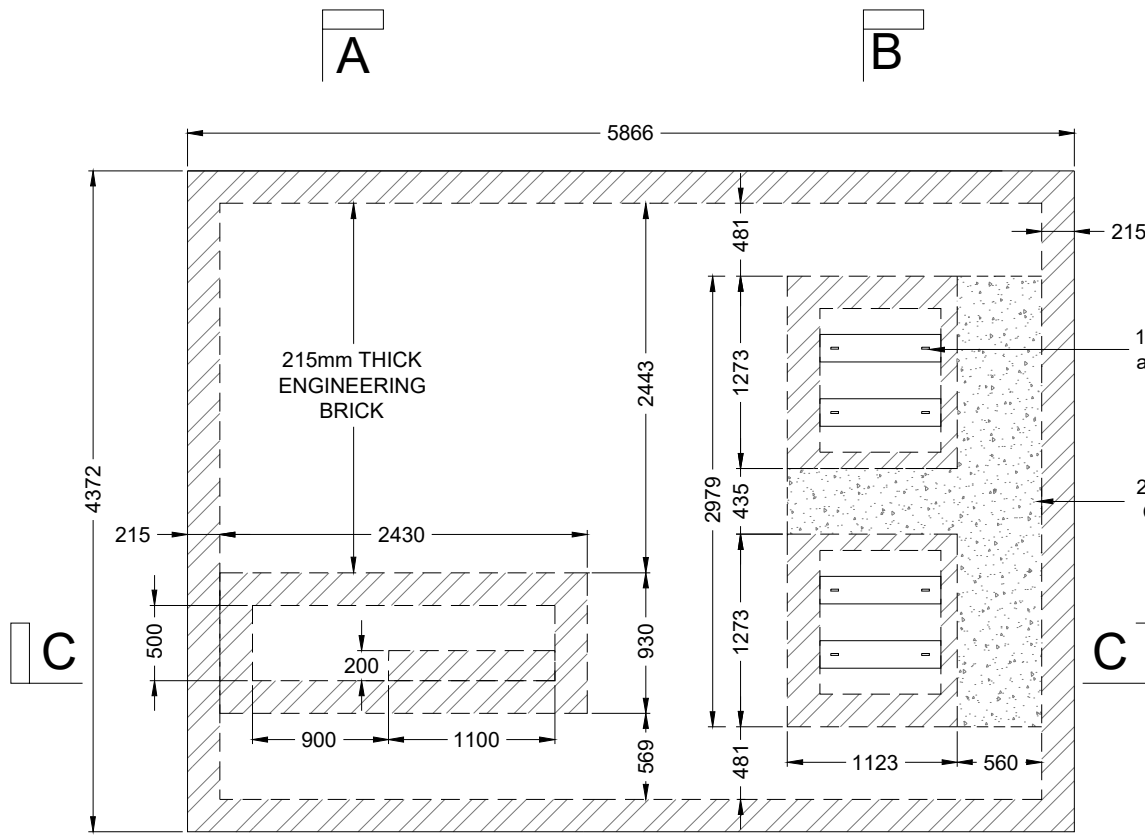
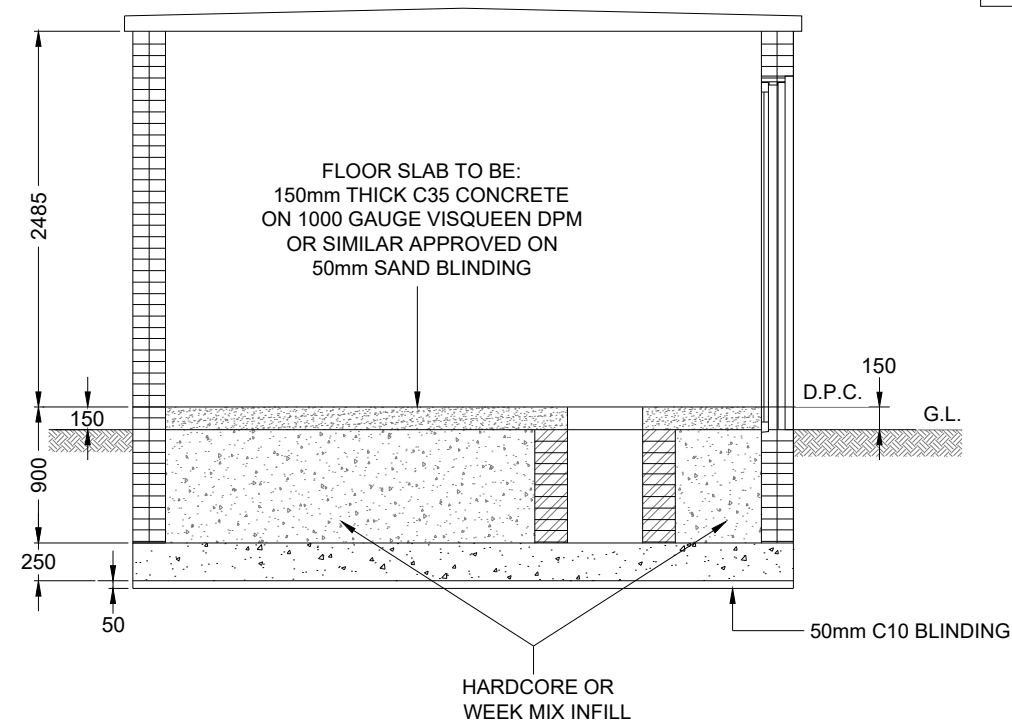
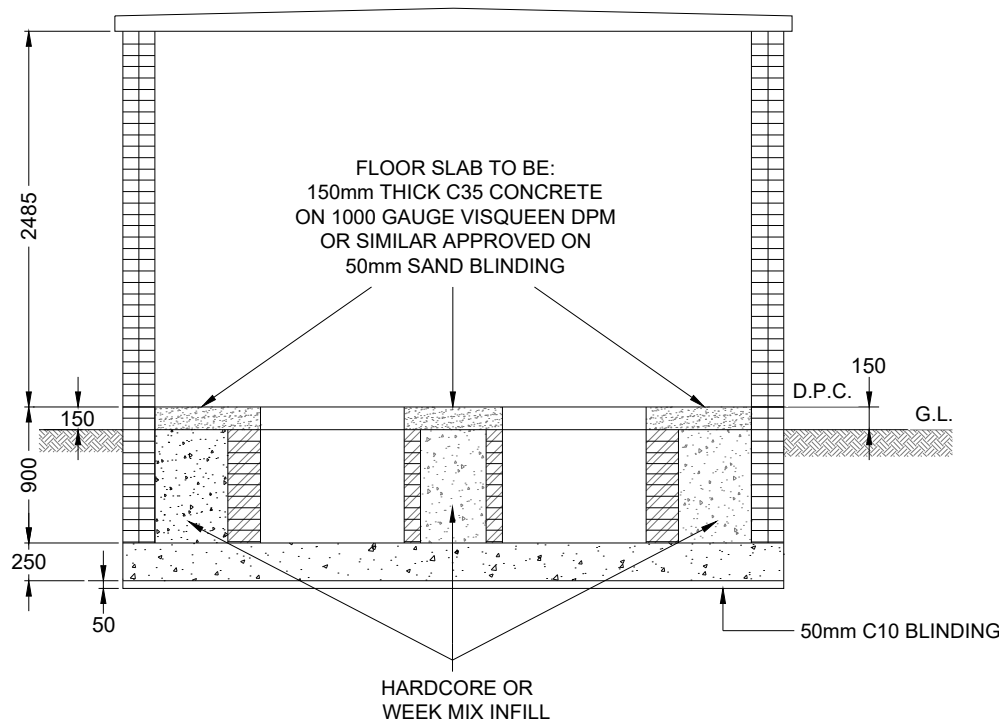




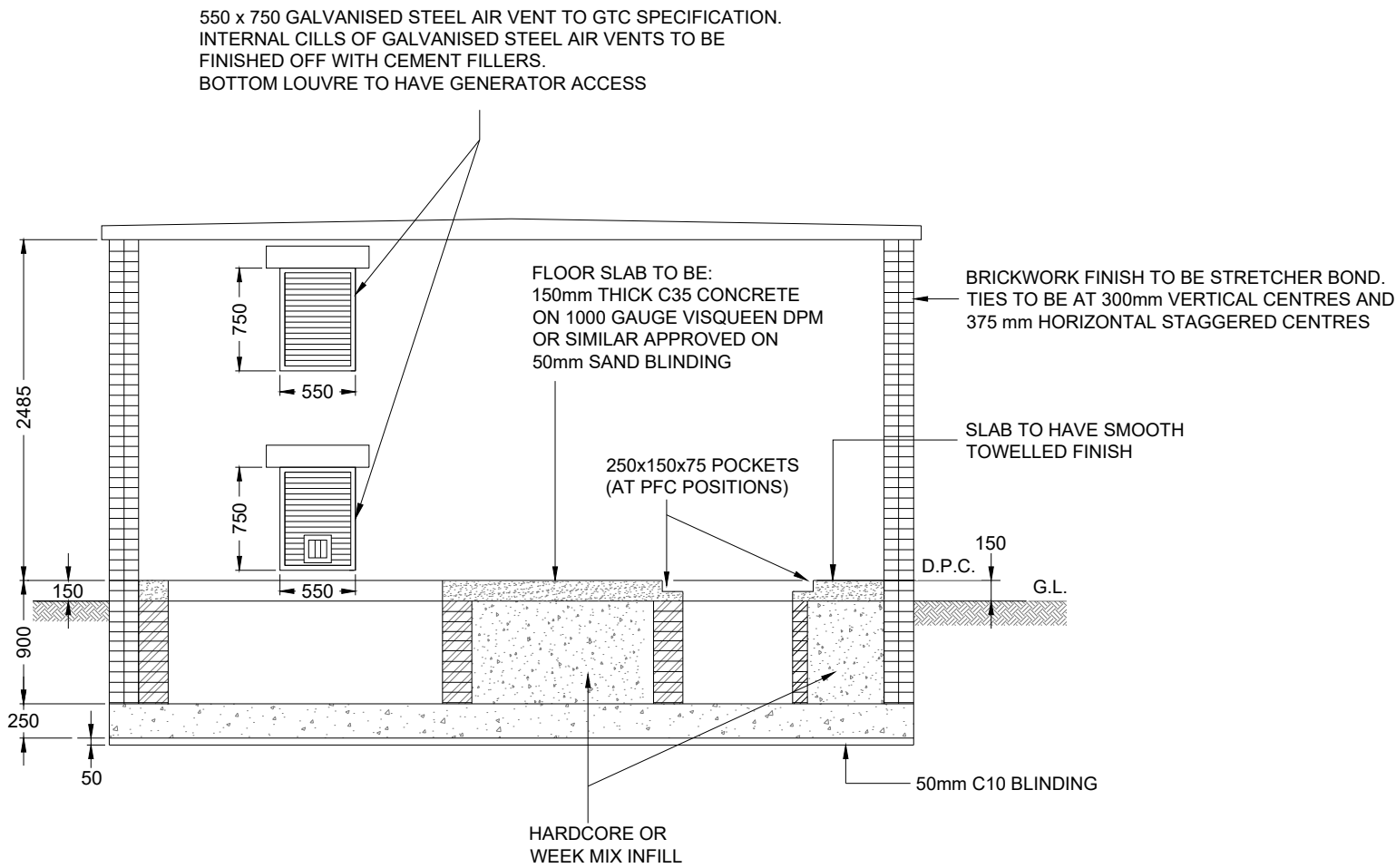
Foundation Plan
(Scale 1:50)



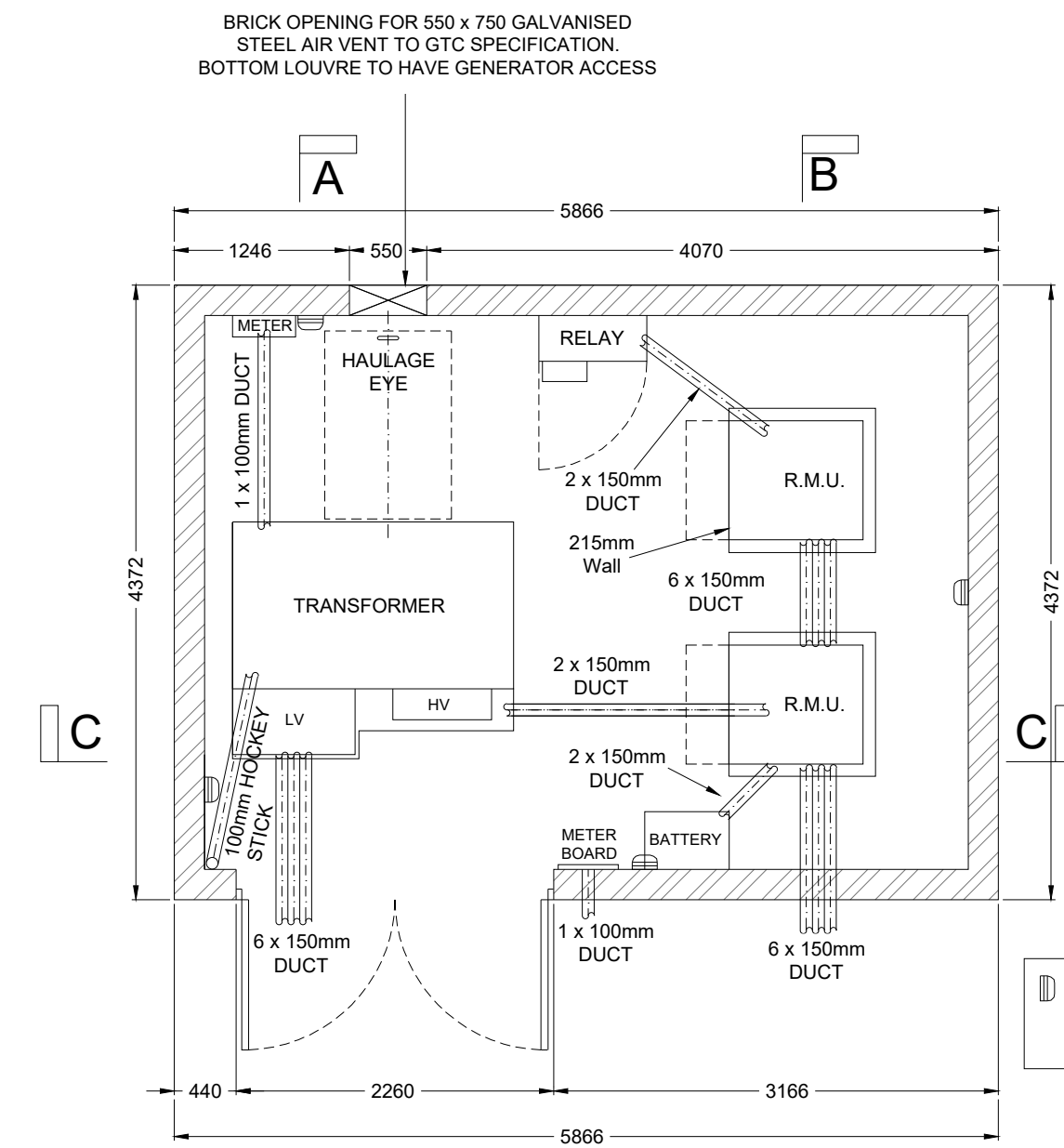
Section A-A
(Scale 1:50)



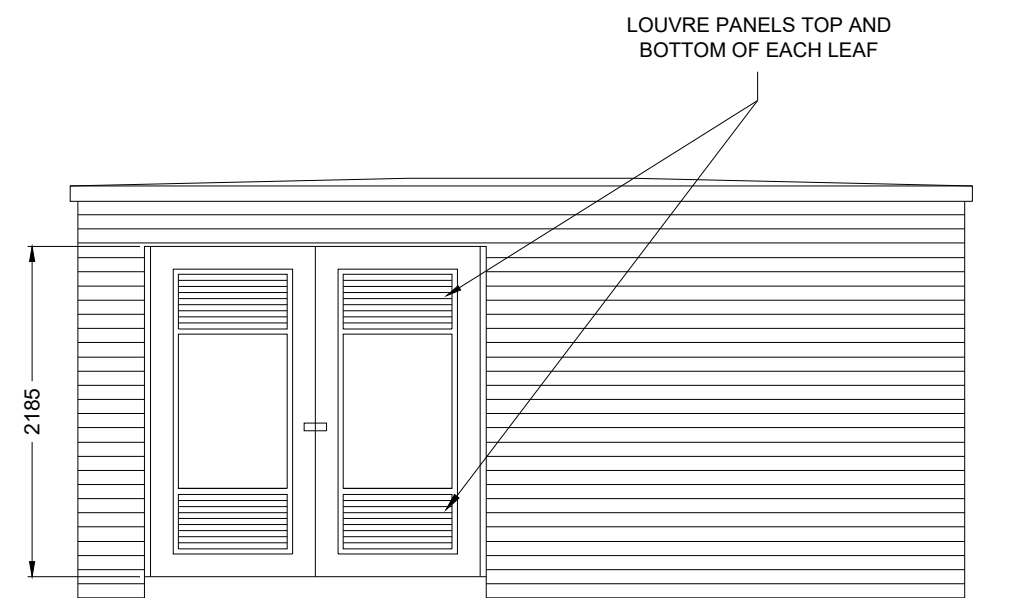
Section B-B
(Scale 1:50)



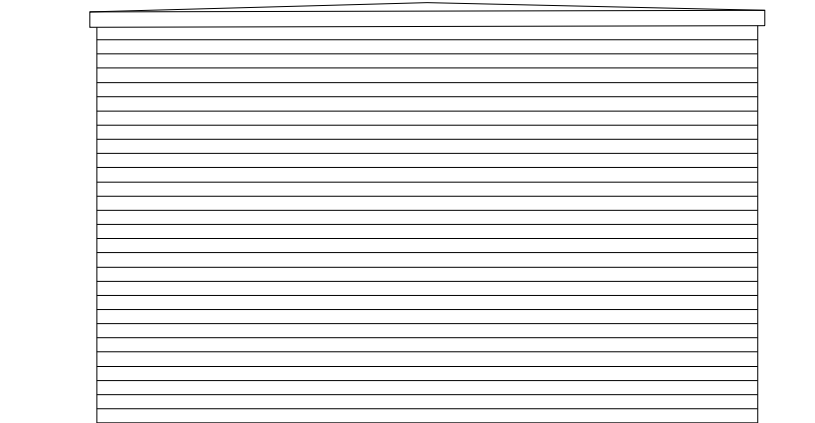
Section C-C
(Scale 1:50)



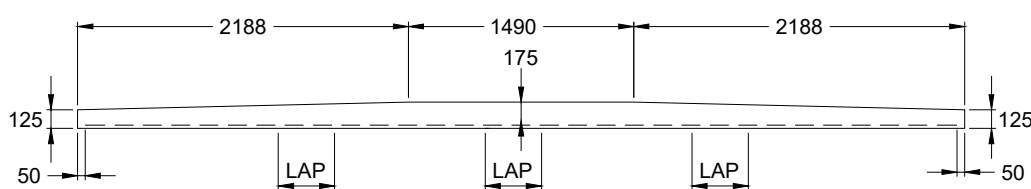
Floor Plan
(Scale 1:50)



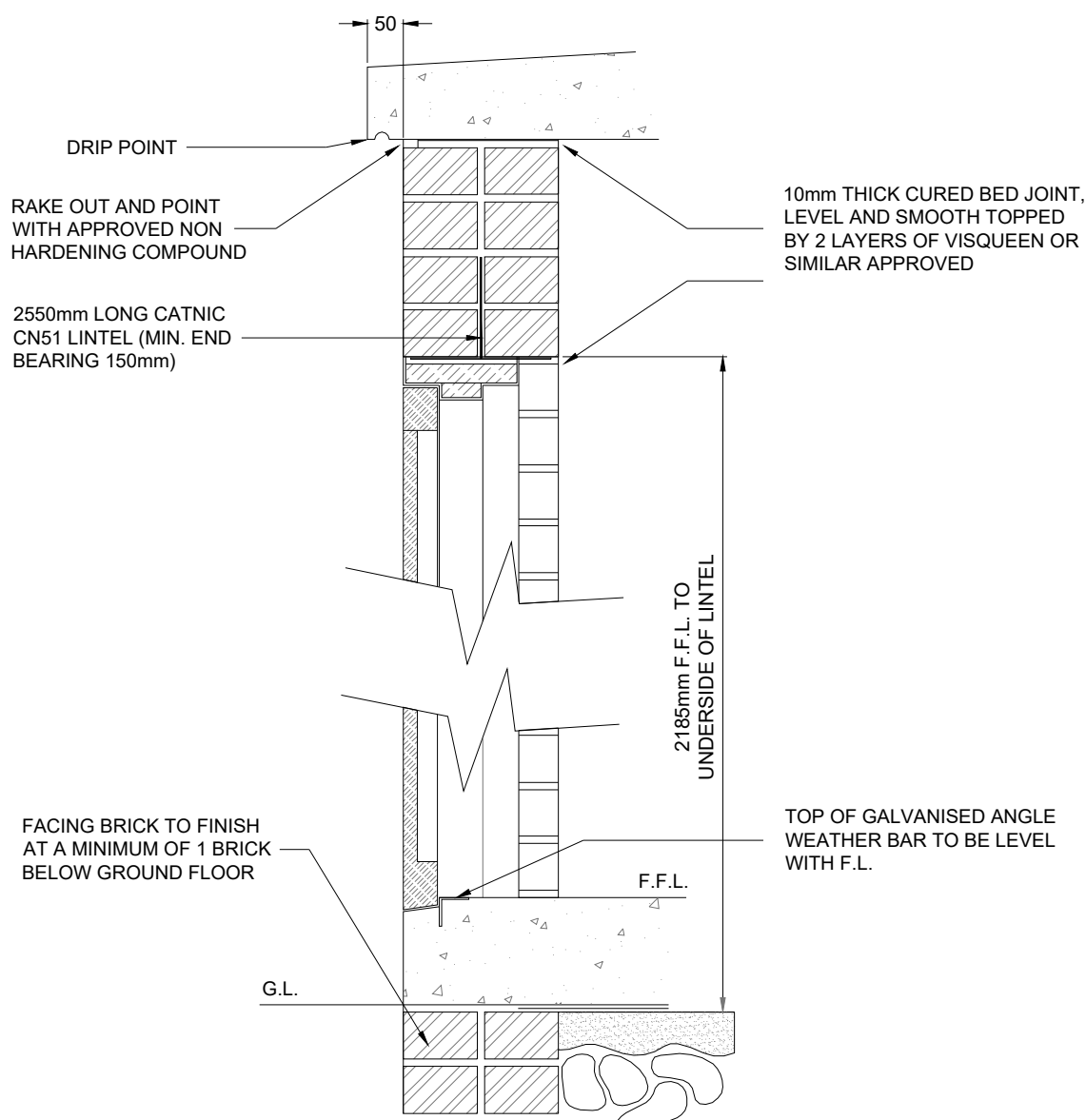
Front Elevation
(Scale 1:50)



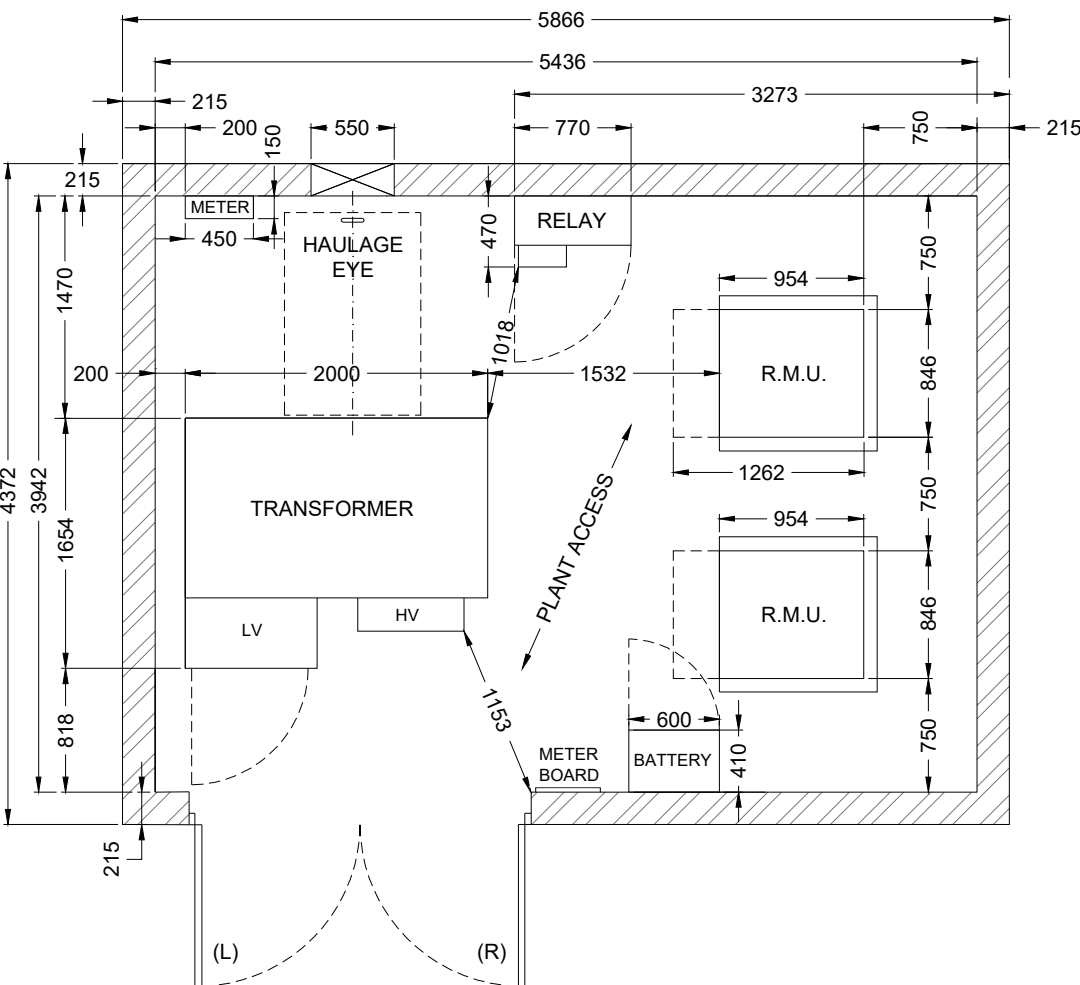
Side Elevation
(Scale 1:50)



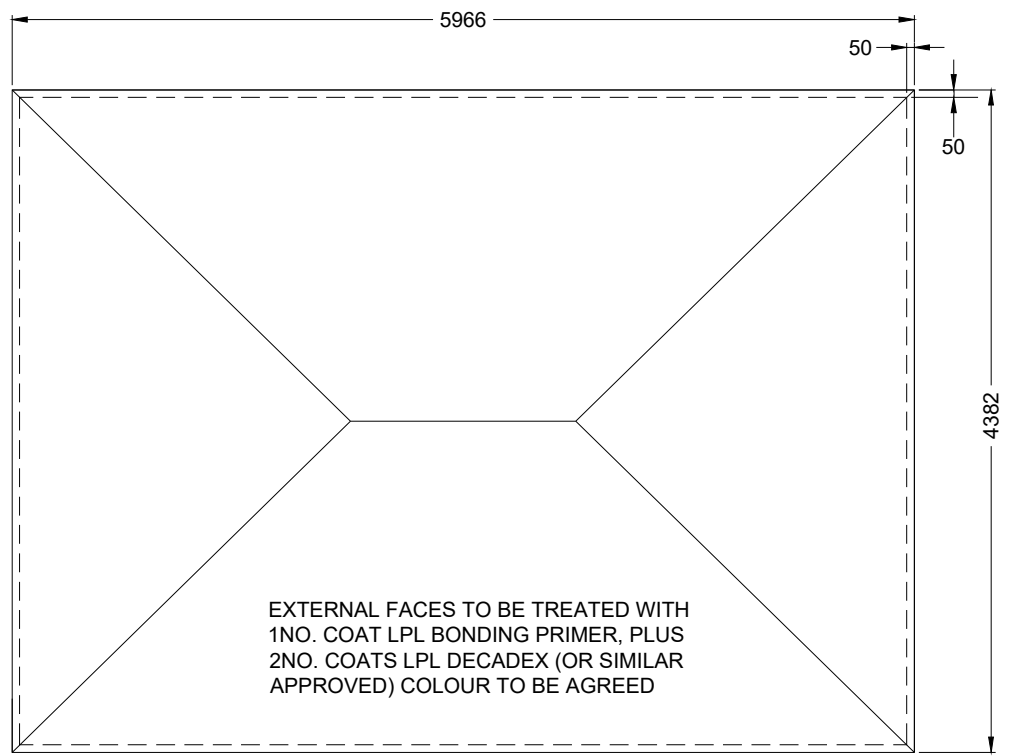
Section Through Roof
(Scale 1:50)



Section through
doorway and roof
(Scale 1:10)



Internal Layout
(Scale 1:50)



Roof Plan
(Scale 1:50)

Lighting and Power

All wiring to be contained in surface mounted high impact PVC conduit and sourced from a quality manufacturer. All accessories to be meta-clad and sourced from a quality manufacturer e.g. MEM or MK.

The consumer unit will be single phase with a 100amp main switch, MCB outgoing circuits consumer unit to be 5-way and labelled to identify circuits. It shall be mounted 1200mm above finished floor level and sourced from a quality manufacturer. MCBs fitted to the consumer unit will comprise: Lighting 6amp. Each socket circuit 20amp. All MCB's shall be to BS EN 60898 Type B. The supply to the consumer unit and selection of conductors will be designed to provide a minimum capacity of 32amps.

Lighting shall comprise 5 wall mounted bulkhead bayonet fittings to take 100w equivalent bulb. The light switch shall be positioned adjacent to the 'first leaf' opening' door, be surface mounted at 1200mm to centre above finished floor level and contain an illuminated locator.

One 13amp socket outlet with integral 30mA RCD protection will be provided for use with portable tools and equipment with consideration given to the mounting position. This socket shall have a neon indicator labelled 'test equipment only' (Radial circuit) sockets shall be metal-clad type, comply with BS 1363 and be wall mounted adjacent to each other at a height of 450mm above ground level.

All wiring shall comply with BS:7671 Requirements for electrical installation (IEE Wiring regulations 17th Edition) January 2008.

APPROVED SUPPLIERS

GTC APPROVED - GRP SUBSTATION DOORS, STEEL VENTILATORS AND GRP TRENCH COVERS
WOLSELEY (FORMALLY UTILITY POWER SYSTEMS) CARWOOD ROAD, CHESTERFIELD TRADING ESTATE, CHESTERFIELD, DERBYSHIRE, S41 9GB
Tel: 0344 251 1666
Fax: 01246 455915
Email: sales@utilitypowersystems.co.uk

GTC APPROVED - STEEL DOORS AND VENTILATORS AND GRP TRENCH COVERS:
SUNRAY ENGINEERING LTD, KINGSNORTH INDUSTRIAL ESTATE, WOOTON ROAD, ASHFORD, KENT, TN23 6LL
Tel: 01233 639039
Fax: 01233 625137
Email: sales@sunraydoors.co.uk

GTC APPROVED - STEEL DOORS AND VENTILATORS:
BRADBURY ENGINEERING, DUNLOP WAY, QUEENSWAY INDUSTRIAL ESTATE, SCUNTHORPE,

General Notes

- This drawing is to be read in conjunction with all relevant architect's, engineer's and mechanical and electrical engineer's drawings, specifications etc.
- All dimensions to be checked on site.
- Any discrepancies, contradictions to be notified to project architect/engineer.
- Concrete
The concrete is to be in accordance with the specification and attain the relevant cube crushing strength at 28 days.
- Foundations (Concrete 35N/mm² 28 days cube strength).
Foundations are to be set on undisturbed organic strata that provide the required minimum design safe ground bearing capacity.
- Floor (Concrete 35N/mm² 28 day cube strength).
A flat, level and smooth floor surface is essential for installation of plant. Tolerance to finished level expressed as a maximum permissible deviation beneath a straight edge with feet placed anywhere on the floor shall not exceed 1mm in 1m or 3mm in 3M. Floors to be cured, prepared and painted with 2No. coats of non-slip floor paint on completion.
- Brickwork
All brickwork below D.P.C. to be H.D. category 1 min. 75N/mm² mean compressive strength and max 7% M.A. and durability designation F2 S2 (Ex-engineering brickwork class B) in English bond except for exposed faces. External facing bricks to be H.D. category 1 min. 20N/mm² mean compressive strength, maximum 12% M.A. and durability designation F1 S1 or better. Internal bricks to be fair faced smooth textured solid concrete bricks, size to match external facing bricks with a mean compressive strength of not less than 20N/mm² class II mortar.
- Walls
Leaves of collar jointed double stretcher walls to be tied together by means of 4mm min diameter, stainless steel double-triangle ties (or better) laid in every 4th course at 375mm centres and set back 38mm from outer face, ties are to be staggered. Where cavity wall construction is proposed the constructor shall confirm by structural design calculation to satisfaction of energy networks that the proposed cavity wall panel construction has equivalent lateral strength or better than that detailed on this drawing (e.g. stainless steel windposts or other stainless steel reinforcement system).
- Roof
Internal/External faces of concrete to be fair faced. All external faces to be cured, prepared, primed and finished with a two coat high-performance (Aliphatic) polyurethane waterproofing system (flat roof grade) with glass fibre mat reinforcement to initial coat E.G.
1No. coat of LPL bonding primer then
2No. coats of LPL Decothane or equal system
- Internal/External faces of concrete to be fair faced. All external faces to be cured, prepared, primed and finished with a two coat high-performance (Aliphatic) polyurethane waterproofing system (flat roof grade) with glass fibre mat reinforcement to initial coat E.G.
- Ventilation unit opening sized for 1000kVA transformers shall be a minimum 550 x 750mm. Typical ventilation indicated may not be adequate in certain supply conditions which might require additional or alternate ventilation arrangements.
- Foundation and floor layout details indicated are typical for substation buildings housing indoor equipment and would not therefore be applicable to unit substation equipment of H.V. switching station layouts.

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REV	DRAWN	CHECKED	APPROVED	DATE
STATUS: DRAFT				
		SP Ref No: 00000000		
SCOTTISHPOWER		Emergency No:0800 001 5400		
LAND OWNER ADDRESS:		DEVELOPER ADDRESS:		
APTUS CONTRACT NUMBER:		AP****		
DRAWING: X TYPE SUB - IDNO 1				
DRAWN: N.BOULD	CHECKED: CHECKED	APPROVED: APPROVED	DATE: 05/01/2023	
SHEET NO: 1 OF 1	SCALE: 1:50	@ A1	REV: -	
DEVELOPMENT:				
DRAWING NO: AP----.APT.HV.XX.GF.Y.120001				
		Aptus House, Unit 19-20, Barrs Folds Road, Wingates Industrial Estate, Bolton, BL5 3XP Tel: 01204 325000		
MULTI-UTILITIES MASTERED				
SITE ENTRANCE GRID REF				
EASTINGS:		EASTINGS		
NORTHINGS:		NORTHINGS		
LEGEND		 NERS NATIONAL ELECTRICAL REGISTRATION SCHEME		
				
REF: PRJ11100233864-3F				