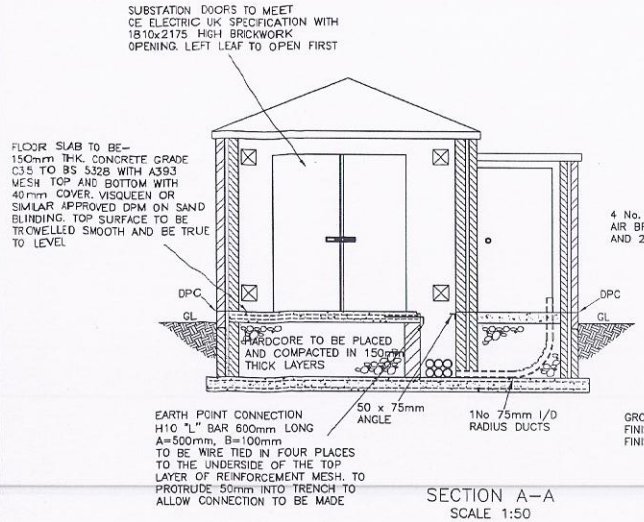
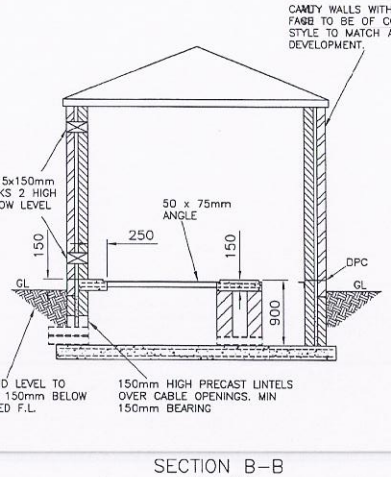
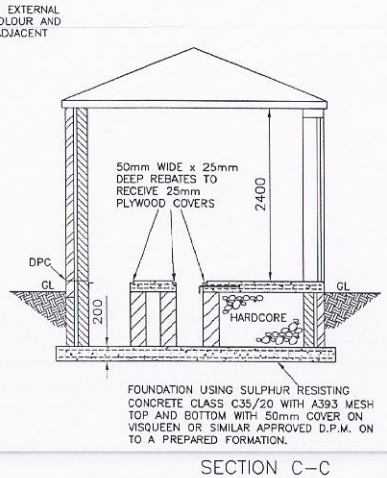


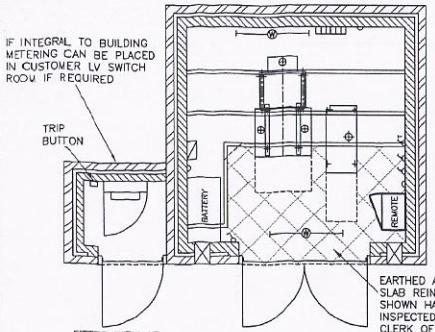
SECTION A–A
SCALE 1:50



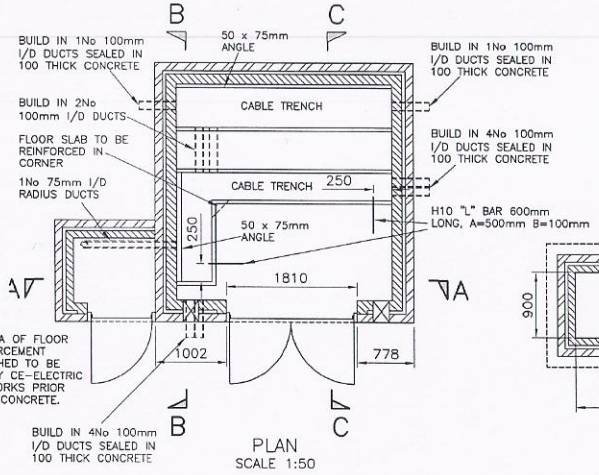
SECTION B–B
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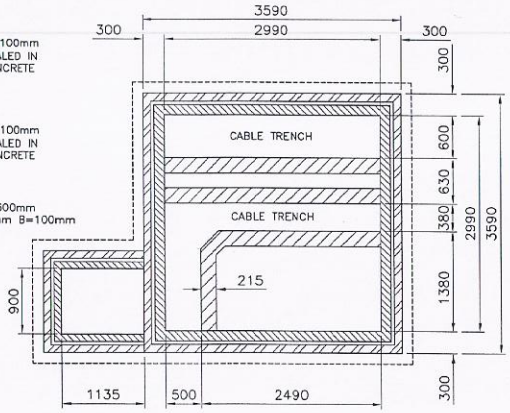
SECTION C–C
SCALE 1:50



ELECTRICAL LAYOUT
SCALE 1:50



PLAN
SCALE 1:50



FOUNDATION PLAN
SCALE 1:50

- LIGHT SWITCH
- SWITCHED SOCKET OUTLET
- SWITCHED SOCKET OUTLET (TEST)
- UNSWITCHED SPUR
- CONSUMER UNIT WITH MCB's
- FLUORESCENT TUBES IN IP56 FITTINGS (WALL MOUNTED)
- TUBULAR HEATERS BEHIND PLASTIC COATED COVER (THERMOSTATICALLY CONTROLLED TO MAINTAIN A MIN. TEMPERATURE OF 5 °C)

ALL FITTING/CONDUIT TO BE PVC

FOR DETAILED INFORMATION SEE TECHNICAL SPECIFICATION NPS/006/001

INTERNAL CUBIC CAPACITY – 21.5m³

NOTES

FLOOR:

1. Foundations to be designed for a maximum weight of 40kN and a minimum ground bearing pressure of 80kN/m².
2. The foundations shown are for a substation built on natural ground, if ground is unsuitable the foundations are to be adjustec to structural engineers instructions.
3. Floor slab shall be designed to carry a minimum load of 7.5kN/m². Floor to be level, steel float finish concrete, and sealed with approved concrete sealer or concrete paint.
4. Earthed area of floor slab reinforcement shown hatched (on electrical layout) to be inspected by CE-Electric clerk of works prior to pouring concrete.
5. Trench covers to be 25mm exterior quality WBP ply, maximum width 1200mm, each cover to have 2 No. 35mm diameter finger holes, covers to be painted two coats silver gloss paint both sides and all edges.
6. Floor to be cast to front face of door opening, providing solid threshold. External level to be 150mm below finished floor level, allow unrestricted access for gear, and have a level landing area.
7. External paving and site finishes shall be provided as agreed with CE Electric representative on site. As a minimum this shall consist of paving to full width of substation doors x 1200mm deep, with paving linking nearest highway path.

ROOF:

8. Substation construction to provide 0.25 W/m² °C to roof.
9. Ceiling height to be minimum 2400mm, maximum 2800mm, and to give one hour fire protection. Ceiling to be concrete, plasterboard, fireboard or similar on suitable timber framework where required.
10. Roof to be non fragile, waterproof membrane to have minimum life expectancy of 15 years Timber roofs to have 18mm minimum ply decking. Pitched tile or slate roofs to have 18mm ply sarking to prevent access, with counter battens and sarking felt over ply. tile or slate roofs to be underdrawn with 12mm ply to prevent access. On sloping or tiered sites, measures shall be incorporated to prevent access on to roof.
11. All roofs to be secured to walls via proprietary fixings or straps (explosion relief devices not acceptable) to be designed to BS6399 part 3. Pitched roofs shall have gable restraint straps fixed to roof framework.

BRICKWORK:

12. Masonry below ground level to be 7N/mm² dense concrete block or brick.
13. Walls to be 300mm cavity walls with blockwork or brick inner leaf. Internal walls minimum 140mm thick 7N concrete block or brickwork. Leafs to be tied together with stainless steel double triangle wall ties to BS1243 at 450mm centres vertical and 900mm centers horizontal.
14. 215mm trench walls to be fair faced and flush pointed dense concrete block or brick.

DOORS:

15. Doors shall be to CE Electric type specification. Other door types shall only be used with prior written approval of CE Electric, must accommodate CE Electric double locking arrangement utilising Yale Type 82 cylinder deadlock and swivel locking bar, and must be provided with documentation proving LPS 1175SR 3 or similar minimum security rating.
16. Door reveals & lintel soffits to be closed, closure to provide minimum 1hour fire protection.

Substations attached to or enclosed within other buildings to have minimum one hour fire compartmentation. Irrespective of other requirements imposed by L.A. fire officer.

Trenches and cable routes linked to customer's accommodation to be closed off after cable installation. Closure to prevent physical access into substation and provide one hour fire protection.

No structural steel within substation to be exposed. Steel doors shall be fixed to masonry and not to steel structural frame of building.

The position of the louvred ventilators should be such that they do not create a customer noise complaint.

Care is to be taken to ensure that access to cable openings is not impaired.

No Gas, Sanitary, Water or other Services to run through or under the substation.

REFERENCE DRAWINGS :

C969423 – Standard Steel Door Details (use Door Type A)
C969424 – Standard Hardwood Door Details (use Door Type A)
C969428 – Roof Details (GRP/STEEL)
C978643 – Earth Point Connection Details

REFERENCE DOCUMENTS :

IMP/003/001 – Code of Practice for the Construction and Building Design of Ground Mounted Secondary Substations.

NPS/006/001 – Technical Specification for the Construction of Ground Mounted Secondary Substations.

CUSTOMER NOTES

The customer to carry out all necessary lighting and heating installation and building work as described including the provision of the LV supply. The substation shall be wired independently of any other areas or customers accommodation.

CE Electric will not install any equipment until the accommodation is deemed fit for purpose. Customer service will not be made live until completion certificate is issued.

Customer or their agent to obtain all necessary Planning and Building approvals before construction work commences.

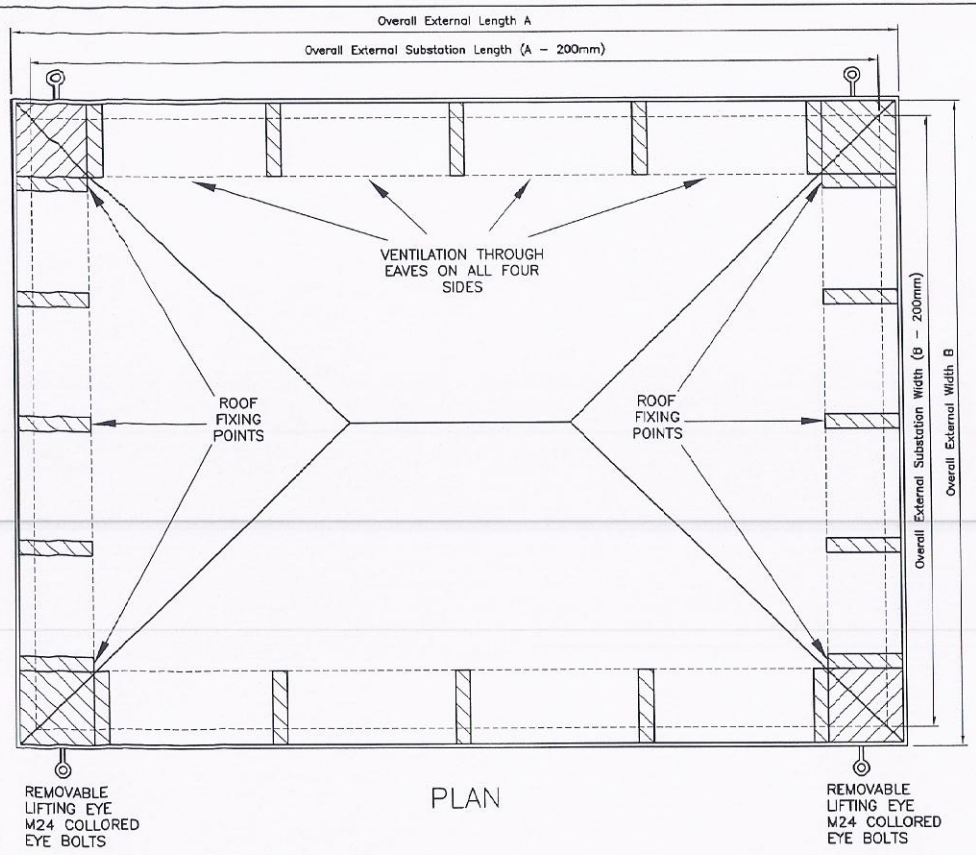
This drawing is intended to indicate the minimum requirements for the installation of CE Electric apparatus and is not in any way intended to describe the building to architectural, structural or other requirements.

The customer shall provide full construction drawings minimum 15 days prior to commencement of works, to allow CE Electric to check for compliance with their requirements.

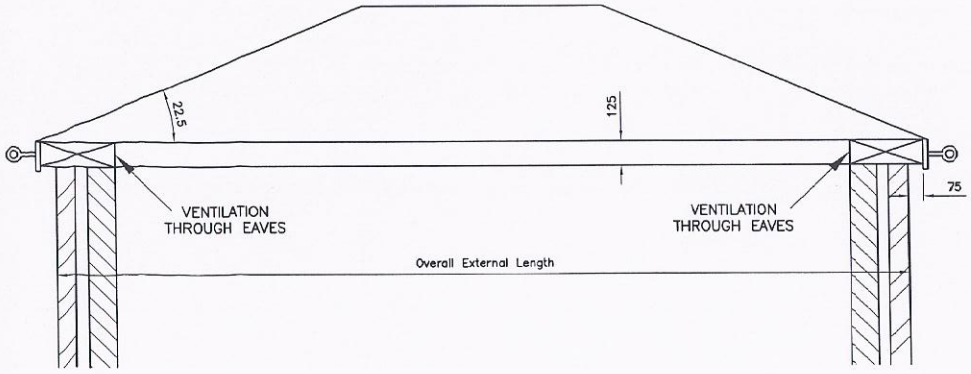
Substation to be designed in accordance with CE Electric flood mitigation policy.

CE Electric Project Engineer to be notified of commencement of site works to enable site inspections to be carried out during construction.

CE Electric UK		Lloyds Court, 78 Grey Street, Newcastle Upon Tyne, NE1 6AF	
Manufacturer Details		TYPE C RMMU WITH OPTIONAL EXTENSIBLE SW/GR WITH HV METERING ANNEXE	
Sheet No. 1	Scale AS SHOWN		
Prepared By TD		Document Details STANDARD DISTRIBUTION SUBSTATION DRAWING	
Revised	Grid Reference	Ref No. C969417	Historic Drawing No. Y001S12
Date Issued 07.11.08	Checked By CD	Revision A	Notes



PLAN



SECTION

minimum
soffit ventilatio

Note:–

1. Roof to be designed for wind and snow loadings on to provice 0.25 W/m² °C insulation to roof.
2. 4 way 22.5 deg pitched roof to suit dimenstions of building.
3. Designed to be manufactured in one piece for delivery.
4. Designed for safe lifting with winching points.
5. Fixing down points as recommended to BS6399 part 3.
6. Roof to fixed in position using galvanised ms vertical anchor straps, these are to be supplied by roof manufacturer for fixing by others.
7. Mesh to be used around ventilation area to stop vermin.
8. Roof is to be self supporting.
9. To provide 1hr fire resistance.
10. Minimum life expectancy of 25 years.
11. Enclosure finished to match local materials and to suit environment.
12. If in steel, to be galvanised and finished to match surrounding.
13. To provide a minimum of 0.85 m² of ventilation.
14. Supplier to provide drawings for approval.

KEY FOR SIZES REQUIRED

S/S TYPE	A1	C1	X	Y	Z
LENGTH	4577	4915	3230	3790	3790
WIDTH	3340	3340	3340	3340	3340

CE Electric UK

Lloyds Court, 78 Grey Street, Newcastle Upon Tyne, NE1 6AF

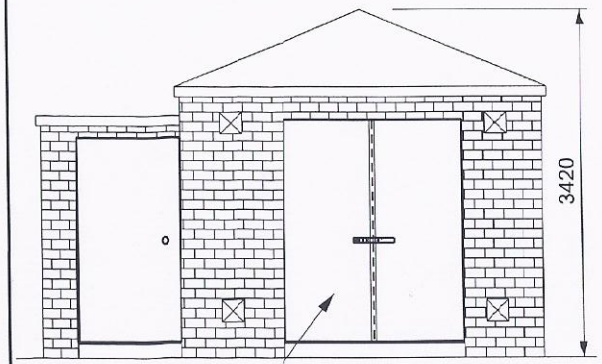
Manufacturer Details

ROOF DETAILS
(GRP/STEEL)

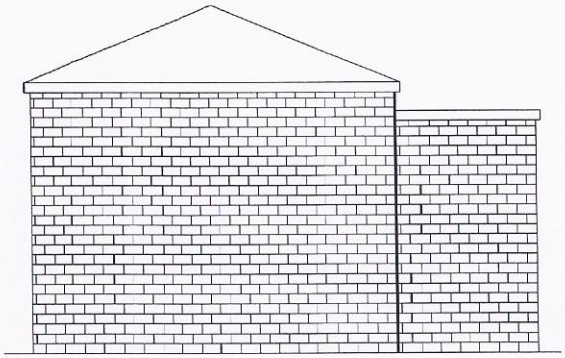
Sheet No.	Scale	Document Details	
1	AS SHOWN	STANDERD DISTRIBUTION SUBSTATION DRAWINGS	
Prepared By: TD			
Revised	Grid Reference	Ref No. C969428	Historic Drawing No. Y001S12
Date Issued 07.11.08	Checked By CD	Revisior A	Notes

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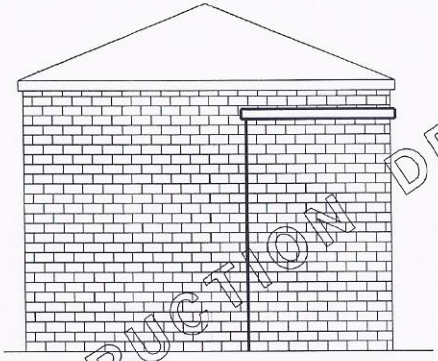
Do not scale this drawing . If in doubt ask , and verify all dims on site.



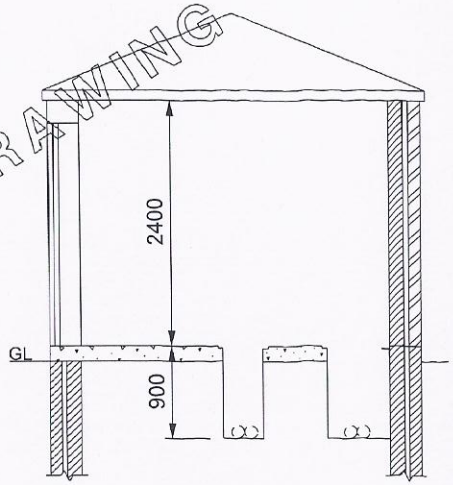
FRONT ELEVATION



REAR ELEVATION

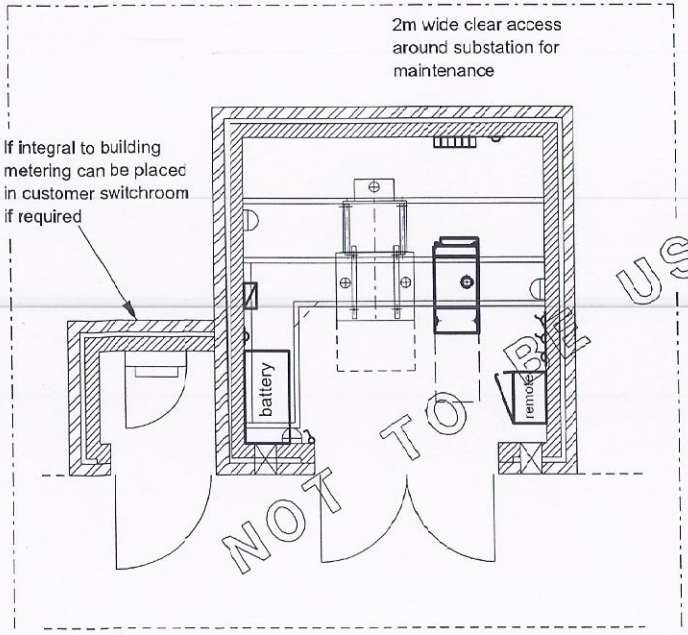


SIDE ELEVATION

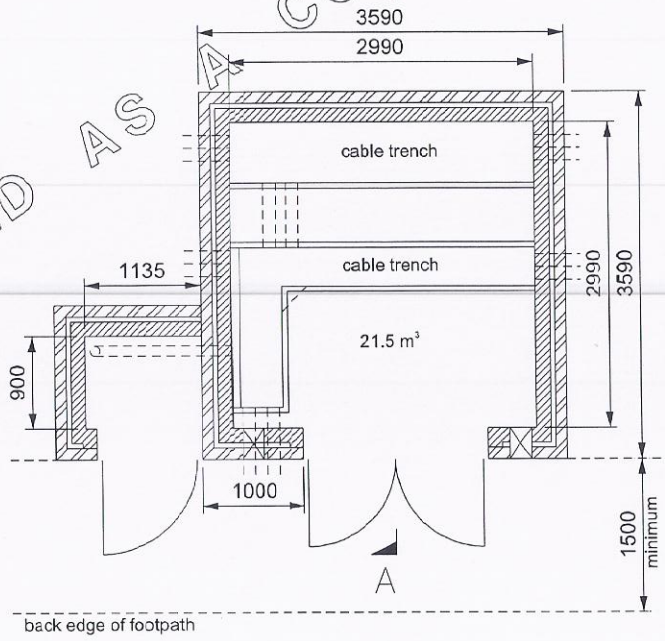


SECTION A-A

substation doors to meet specification. 1810x2175mm high openings, to receive panel doors.



ELECTRICAL LAYOUT



PLAN

NOT TO BE USED AS A CONSTRUCTION DRAWING

CE Electric UK

Project : RMMU WITH OPTIONAL EXTENSIBLE SW/GR WITH HV HV METERING ANNEXE

Title : General Arrangement Plan & Elevations

TYPE G	Rev: A
Drg No. : C969441	

A	Drawing revised	date: 20.04.09	drawn : T.D.	B		date:	drawn :	C		date:	drawn :	Scale : 1:50	Date : 07.11.08	Drawn : T.D.	Checked : C.D.	Approved : C.D.
		checked :	approved :			checked :	approved :			checked :	approved :					

A3 Drawing Sheet

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