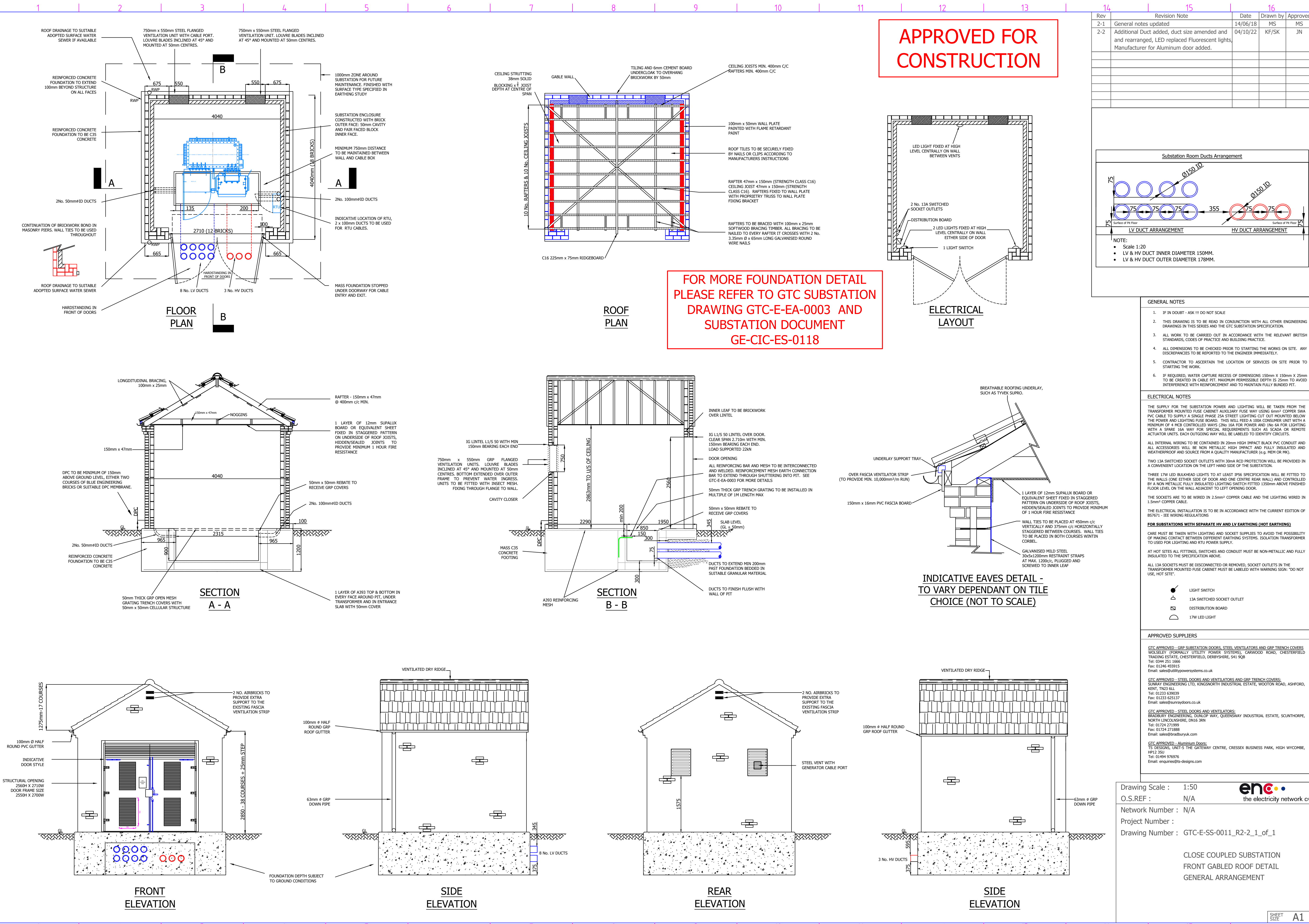
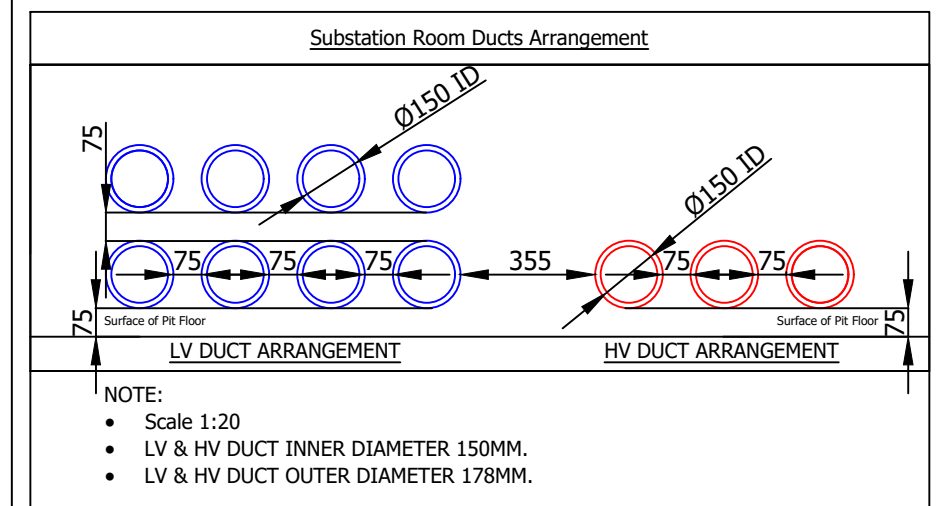




APPROVED FOR
CONSTRUCTION

FOR MORE FOUNDATION DETAIL
PLEASE REFER TO GTC SUBSTATION
DRAWING GTC-E-EA-0003 AND
SUBSTATION DOCUMENT
GE-CIC-ES-0118

Rev	Revision Note	Date	Drawn by	Approved
2-1	General notes updated	14/06/18	MS	MS
2-2	Additional Duct added, duct size amended and rearranged, LED replaced Fluorescent lights, Manufacturer for Aluminum door added.	04/10/22	KF/SK	JN



GENERAL NOTES

- IF IN DOUBT - ASK !! DO NOT SCALE
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERING DRAWINGS IN THIS SERIES AND THE GTC SUBSTATION SPECIFICATION.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND BUILDING PRACTICE.
- ALL DIMENSIONS TO BE CHECKED PRIOR TO STARTING THE WORKS ON SITE. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
- CONTRACTOR TO ASCERTAIN THE LOCATION OF SERVICES ON SITE PRIOR TO STARTING THE WORK.
- IF REQUIRED, WATER CAPTURE RECESS OF DIMENSIONS 150mm x 150mm x 25mm TO BE CREATED IN CABLE PIT. MAXIMUM PERMISSIBLE DEPTH IS 25mm TO AVOID INTERFERENCE WITH REINFORCEMENT AND TO MAINTAIN FULLY GRADED PIT.

ELECTRICAL NOTES

THE SUPPLY FOR THE SUBSTATION POWER AND LIGHTING WILL BE TAKEN FROM THE TRANSFORMER MOUNTED FUSE CABINET AUXILIARY FUSE WAY USING 6mm² COPPER 35kV PVC CABLE TO SUPPLY A SINGLE PHASE 25A STREET LIGHTING CUT OUT MOUNTED BELOW THE POWER AND LIGHTING FUSE BOARD. THIS WILL FEED A DBA CONSUMER UNIT WITH A MINIMUM OF 4 MCB CONTROLLED WAYS (2x16A FOR POWER AND 2x16A FOR LIGHTING WITH A SPARE 16A WAY FOR SPECIAL REQUIREMENTS SUCH AS SCADA OR REMOTE ACTUATOR UNITS. EACH OUTGOING WAY WILL BE LABELED TO IDENTIFY CIRCUITS.

ALL INTERNAL WIRING TO BE CONTAINED IN 30mm HIGH IMPACT BLACK PVC CONDUIT AND ALL ACCESSORIES WILL BE NON METALLIC HIGH IMPACT AND FULLY INSULATED AND WEATHERPROOF AND SOURCE FROM A QUALITY MANUFACTURER (e.g. NEM OR HK).

TWO 13A SWITCHED SOCKET OUTLETS WITH 30mA RCD PROTECTION WILL BE PROVIDED IN A CONVENIENT LOCATION ON THE LEFT HAND SIDE OF THE SUBSTATION.

THREE 17W LED BULKHEAD LIGHTS TO AT LEAST IP65 SPECIFICATION WILL BE FITTED TO THE WALLS (ONE EITHER SIDE OF DOOR AND ONE CENTRE REAR WALL) AND CONTROLLED BY A NON METALLIC FULLY INSULATED LIGHTING SWITCH FITTED 1350mm ABOVE FINISHED FLOOR LEVEL ON THE WALL ADJACENT TO LEFT OPENING DOOR.

THE SOCKETS ARE TO BE WIRED IN 2.5mm² COPPER CABLE AND THE LIGHTING WIRED IN 1.5mm² COPPER CABLE.

THE ELECTRICAL INSTALLATION IS TO BE IN ACCORDANCE WITH THE CURRENT EDITION OF BS7671 - SEE WIRING REGULATIONS.

FOR SUBSTATIONS WITH SEPARATE HV AND LV EARTHING (HOT EARTHING)

CARE MUST BE TAKEN WITH LIGHTING AND SOCKET SUPPLIES TO AVOID THE POSSIBILITY OF MAKING CONTACT BETWEEN DIFFERENT EARTHING SYSTEMS. SOLUTION TRANSFORMER TO USED FOR LIGHTING AND RTU POWER SUPPLY.

AT HOT SITES ALL FITTINGS, SWITCHES AND CONDUIT MUST BE NON-METALLIC AND FULLY INSULATED TO THE SPECIFICATION ABOVE.

ALL 13A SOCKETS MUST BE DISCONNECTED OR REMOVED. SOCKET OUTLETS IN THE TRANSFORMER MOUNTED FUSE CABINET MUST BE LABELED WITH WARNING SIGN: "DO NOT USE, HOT SITE".

- LIGHT SWITCH
- △ 13A SWITCHED SOCKET OUTLET
- DISTRIBUTION BOARD
- 17W LED LIGHT

APPROVED SUPPLIERS

GTC APPROVED - GRP SUBSTATION DOORS, STEEL VENTILATORS AND GRP TRENCH COVERS
WOLSELEY (FORMERLY UTILITY POWER SYSTEMS), CARWOOD ROAD, CHESTERFIELD TRADING ESTATE, CHESTERFIELD, DERBYSHIRE, S41 9QB
Tel: 01494 251 1666
Fax: 01494 452915
Email: sales@utilitypowersystems.co.uk

GTC APPROVED - STEEL DOORS AND VENTILATORS AND GRP TRENCH COVERS
SUNWAY ENGINEERING LTD, KINGSNORTH INDUSTRIAL ESTATE, WOOLTON ROAD, ASHFORD, KENT, TN23 6LJ
Tel: 01233 638009
Fax: 01233 625137
Email: sales@sunnaydoors.co.uk

GTC APPROVED - STEEL DOORS AND VENTILATORS
BRADBURY ENGINEERING, DUNLOP WAY, QUEENSWAY INDUSTRIAL ESTATE, SCUNTHORPE, NORTH LINCOLNSHIRE, DN16 3RN
Tel: 01724 271999
Fax: 01724 271888
Email: sales@bradburyuk.com

GTC APPROVED - Aluminum Doors
TS DESIGNS, UNIT 5 THE GATEWAY CENTRE, CRESEX BUSINESS PARK, HIGH WYCOMBE, HP12 3SU
Tel: 01494 976676
Email: enquiries@ts-designs.com

Drawing Scale : 1:50
O.S.REF : N/A
Network Number : N/A
Project Number :
Drawing Number : GTC-E-SS-0011_R2-2_1_of_1

CLOSE COUPLED SUBSTATION
FRONT GABLED ROOF DETAIL
GENERAL ARRANGEMENT