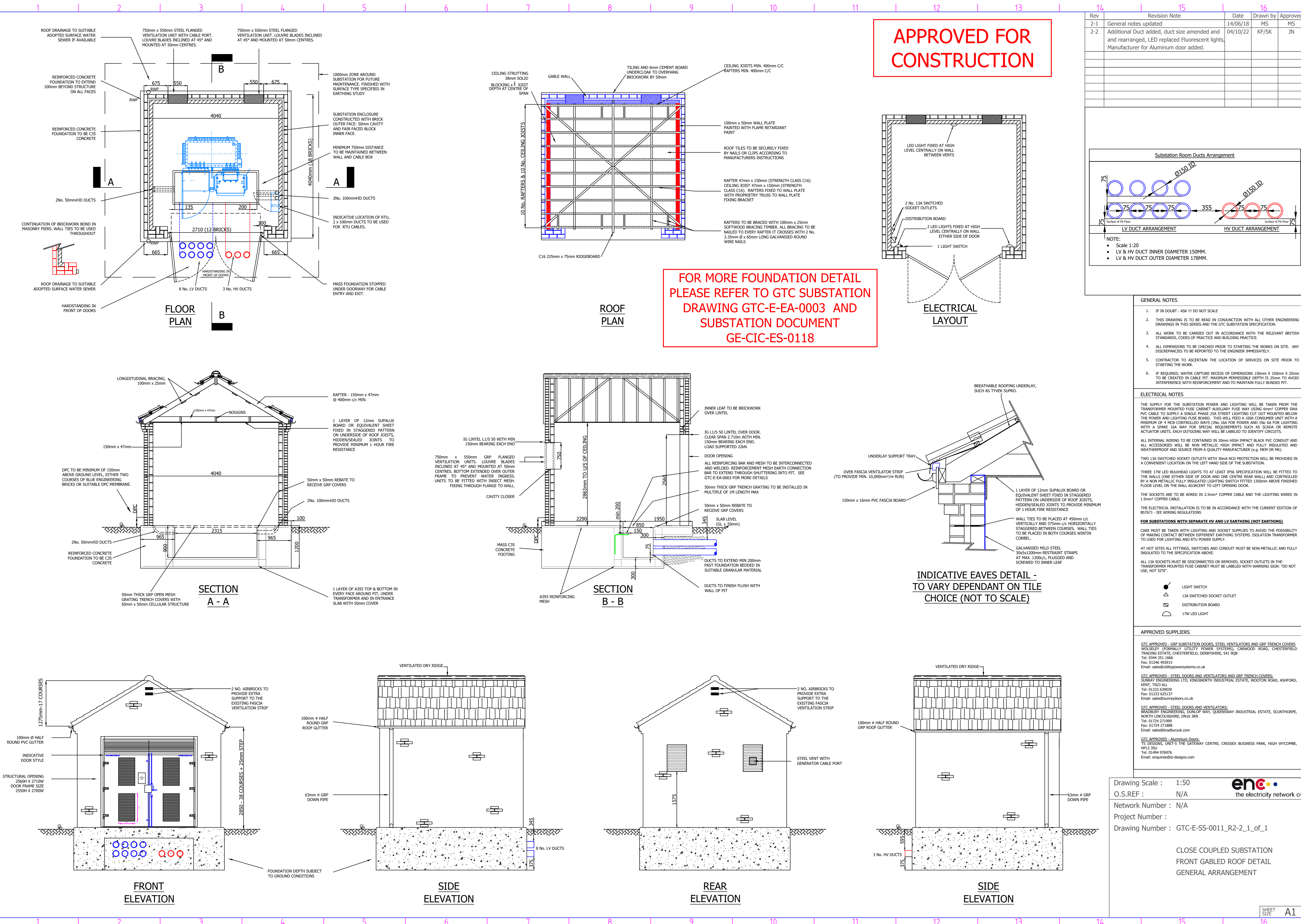
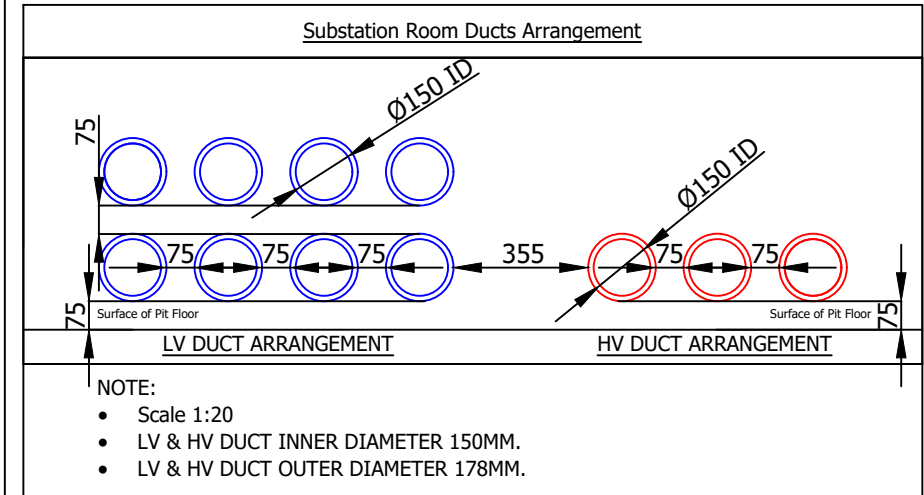




Rev	Revision Note	Date	Drawn by	Approved
2-1	General notes updated	14/06/18	MS	MS
2-2	Additional Duct added, duct size amended and rearranged, LED replaced Fluorescent lights, Manufacturer for Aluminum door added.	04/10/22	KF/SK	JN



- 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 30A PVC CABLE TO SUPPLY A SINGLE PHASE 230V STREET LIGHTING CUT OUT MOUNTED BELOW THE POWER AND LIGHTING FUSE BOARD. THIS WILL FEED A 10A CONSUMER UNIT WITH A MINIMUM OF 4 MCD 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".
- LEGEND:
- 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

