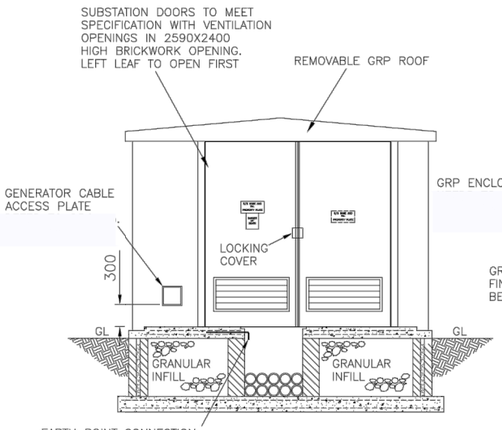
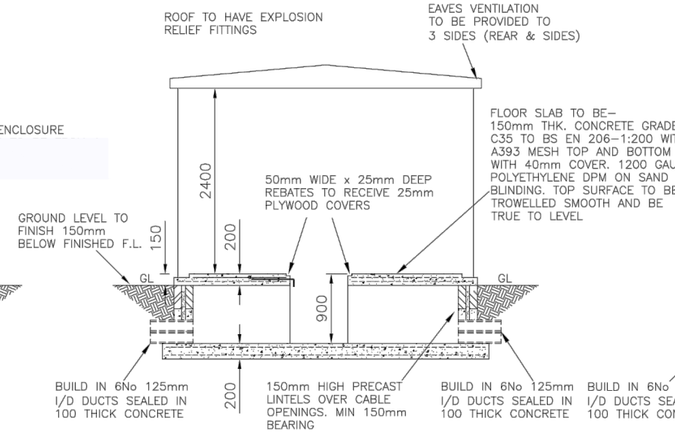
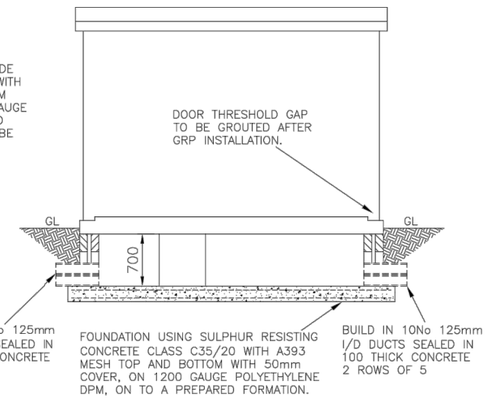


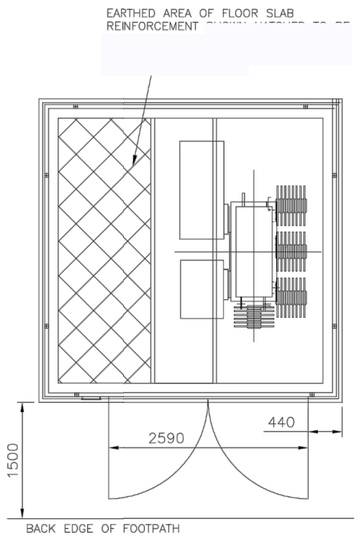
SECTION A–A
SECTIONAL ELEVATION
(VIEWED FROM OUTSIDE)
SCALE 1:50



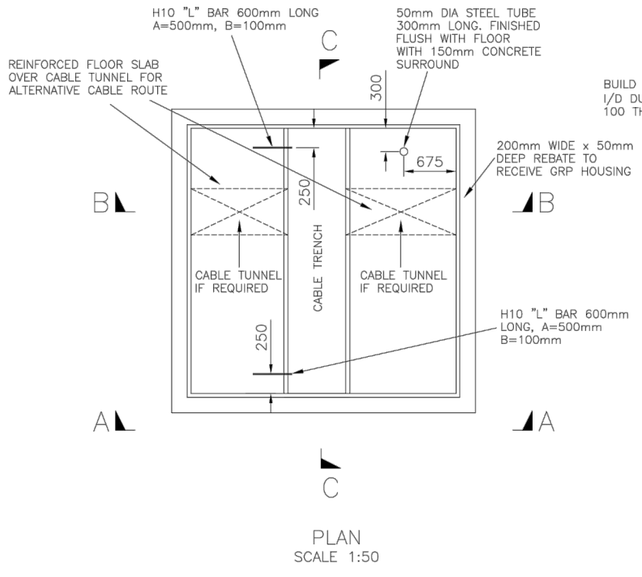
SECTION B–B
SCALE 1:50



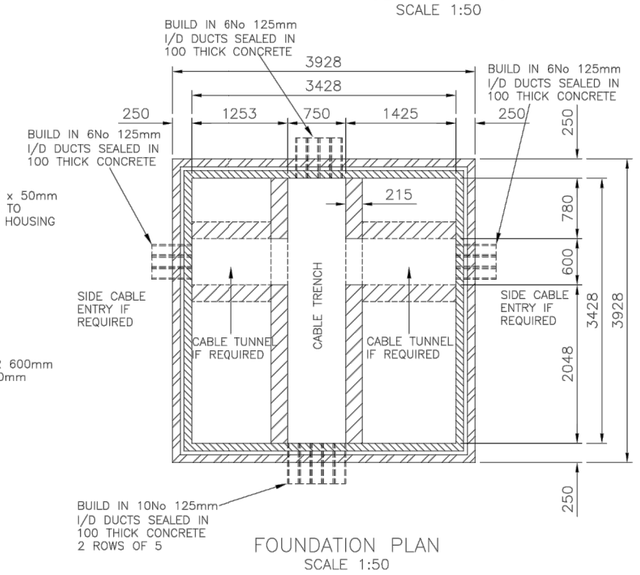
SECTION C–C
SCALE 1:50



ELECTRICAL LAYOUT & ENCLOSURE
SCALE 1:50



PLAN
SCALE 1:50



FOUNDATION PLAN
SCALE 1:50

FOR INTERNAL POWER AND LIGHTING SPECIFICATIONS SEE DRAWING C1010063 Rev C

CONFIGURATION OF CABLE TUNNELS AND DUCTS TO BE AGREED WITH ELECTRICAL ENGINEER / FPS CoW BEFORE FOUNDATIONS ARE BUILT.

MAX ROOM TEMP 30 °C
MAX TRANSFORMER HEAT OUTPUT 12kW

FLOOR:

1. Foundations to be designed for a maximum weight of transformer 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 adjusted to structural engineers instructions.
3. Floor slab shall be designed to carry a minimum load of 7.5kNm². Floor to be level, steel float finish concrete, and sealed with approved concrete sealer or concrete paint before equipment installation.
4. Earthed area of floor slab reinforcement shown hatched (on electrical layout) to be inspected by Northern Powergrid 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.

BRICKWORK:

8. Masonry below ground level to be 7N/mm² dense concrete block or brick.
9. Walls to be 250mm cavity walls with blockwork or brick inner leaf. Internal walls minimum 100mm 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.
10. 215mm trench walls to be fair faced and flush pointed dense concrete block or brick.

Substation doors to be set back a minimum of 1500mm from back edge of footpath. Any proposed reduction in this clearance to be approved by Northern Powergrid following submission of site specific risk assessment and operational method statement

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.

DNO NOT APPROVED

IDNO NOT APPROVED

LEGALS NOT CLEARED

Rev	Revision Details	Drawn By	Checked By	Date
B	DRAWING UPDATED	AR	KM	13/01/2020
A	OIGINAL	AR	KM	07/11/19

FULCRUM
2 Europa View
Sheffield Business Park
Sheffield
S9 1XH

Drawing Number:	5093464/E/SHIPLEY/ GRP HOUSING AND PLINTH PHASE 2/REV B
Drawing Title:	GRP HOUSING AND PLINTH PHASE 2 SUBSTATION 2
Site Address:	PIT LANE, SHIPLEY, HEANOR, DE75 7JL
OS Grid Reference:	444905;344154
Project Number:	5093464
DNO Reference Number:	3363954
IDNO Reference Number:	ASSET013064
Scale:	N.T.S
Sheet Size:	A3