

- Foundations shown are based on a maximum weight of transformer minimum ground bearing pressure of $80 \mathrm{kN/m^2}$ of 40kN and a
- 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.
- Earthed area of floor slab reinforcement shown hatched (PLAN OF EQUIPMENT & ENCLOSURE) to be inspected by Northern Powergrid clerk of works prior to pouring
- Floor to be cast to front face of door opening, providing solid threshold. be 125mm below finished floor level, allow unrestricted access for gear, landing area. d. External level tand have a level
- 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
- External paving and site finishes shall be provided as agreed with Northern Powergrid representative on site. As a minimum this shall consist of paving to full width of substation doors x 1200 mm deep, with paving linking nearest highway path

Roof shall be to Northern Powergrid specification. Other roof types shall only be written approval from Northern Powergrid. Must accommodate an explosion relief must support distributed loading of 1.8kN/m². All roofs to be secured to walls vifixings to be designed to BS6395 Part 3. be used with ef device and via propriety

Walls to be 215mm with blockwork or brick inner leaf. Internal walls minimum 100mm 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 centres horizontal. thick

- 15. Doors must be to Northern Powergrid specification. Each substation site security rating by Northern Powergrid, standard, enhanced or high, the respecification shall match or exceed this site specific security rating. Door submitted for approval prior to placing an order with the supplier. the minimum of the Door details given n door must be
- Doors to include ventilation where shown via steel door louvres to Northern Powergrid specification and approval.
- 17. Door reveals & lintel soffits to be closed, closure to provide minimum protection. one hour fire

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

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.

carry out all necessary lighting and heating installation and building work as 19 the provision of the LV supply. The substation shall be wired independently as or customers accommodation.

Northern Powergrid 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 Northern Powergrid apparatus and is not in any way intended to describe the building to architectural, structural or other requirements.

Substation to be designed in accordance with Northern Powergrid flood mitigation policy. The customer shall provide full construction drawings minimum 15 days prior to commencement of works, to allow Northern Powergrid to check for compliance with their requirements. commencement of site works to

C991543 STANDARD DISTRIBUTION 78 Grey Street, Newcastle Upon Tyne, 1000 KVA UDE IN MASONRY SUBSTATION DRAWING Historic Drawing No. ENCLOSURE Z E 1 6AF