



SCHEDULE OF EQUIPMENT			
REF NO	NO REQD	DESCRIPTION	REMARKS
S1	1	66kV SEALING END SUPPORT	LOW BAR
S2	1	66kV DISCONNECTOR - WITH EARTH BLADES	LOW BAR
S3	1	66kV CIRCUIT BREAKER	-
S4	1	POST INSULATOR SUPPORT	LOW BAR
S5	1	POST INSULATOR SUPPORT	HIGH BAR

NOTE

ALL SWITCHGEAR OUTLINES ARE TYPICAL ONLY.

ALL SETTING OUT DIMENSIONS SHOULD BE VERIFIED WHEN SPECIFIC SWITCHGEAR DETAILS ARE AVAILABLE.

LOCATION MARKS SHOWN THUS ⊗

MAIN MECHANISM BOX SHOWN THUS ▸

EARTH BLADE MECHANISM BOX SHOWN THUS ○

FLOODLIGHTS MOUNTED ON 3m POLE

CONDUIT DUTY

E EARTHING.

M MULTICORE CABLES.

P 66kV POWER CABLES.

S SPARE/HEATING & LIGHTING.

A AUXILIARY TRANSFORMER CABLE.

KEY TO CONDUITS

STRAIGHT

TREFOIL GROUP

ALL CONDUITS TO BE 150mm BORE LAID AT 250mm CENTRES. UNLESS OTHERWISE STATED.

ALL CONDUITS TO BE SUITABLY SEALED OFF AFTER LAYING OF CABLES.

CLEARANCES

NOMINAL SYSTEM VOLTAGE 66kV

STANDARD BUSBAR CENTRES 1675mm

PHASE TO EARTH 700mm

PHASE TO PHASE 780mm

SAFETY CLEARANCE (TO LIVE METAL) 3100mm

INSULATION HEIGHT (PEDESTRIAN ACCESS) 2400mm

HORIZONTAL DESIGN CLEARANCES:

ALLOWING FOR HYDRAULIC PLATFORM 66kV 7500mm

ALLOWING FOR PORTABLE ACCESS EQUIPMENT 3500mm

ALLOWANCE FOR NO ACCESS EQUIPMENT 3250mm

DELINEATED BARRIER CLEARANCE 2500mm

BUSBAR DETAILS

REFER TO:

NPS/003/028 TECHNICAL SPECIFICATION FOR TUBULAR BUSBARS, BUS BAR CONNECTORS AND TERMINAL FIXINGS.

SETTING OUT DETAILS

SETTING OUT DETAILS TO BE PERMANENTLY MARKED OUT ON SITE.

⊗ SETTING OUT LINE X - X TO BE ESTABLISHED ALONG CIRCUIT CENTRELINE

Ⓨ SETTING OUT LINE Y - Y TO BE ESTABLISHED ALONG CIRCUIT CENTRELINE

SCHEDULE OF DRAWINGS TO

NORTHERN POWERGRID		Lloyds Court, 78 Grey Street, Newcastle Upon Tyne, NE1 6AF	
Manufacturer Details		STANDARD 66kV CUSTOMER CONNECTIONS SUBSTATION LAYOUT SHOWING COMPOUND EXTENSION FOR CONNECTION TO REMOTE METERING SUBSTATION	
Sheet No.	Scale	ISO A1	
	1:100	C.A.D.	
Prepared By	G COLES	Document Details	CONSTRUCTION STANDARDS
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