

SCHEDULE OF EQUIPMENT		
NO REQD	DESCRIPTION	REMARKS
3	66kV SELF SUPPORTING SEALING ENDS	LOW BAR
1	66kV DISCONNECTOR - WITH EARTH BLADES	LOW BAR
1	66kV CIRCUIT BREAKER	-
1	66kV DISCONNECTOR - NO EARTH BLADES	LOW BAR
6	POST INSULATORS	HIGH/LOW BAR
3	VOLTAGE TRANSFORMERS	-

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 ○
 DENOTES FIXED CONNECTION ⊕
 DENOTES SLIDING CONNECTION ⊙
 STANDARD STRUCTURE REFERENCE No. (S1) TO (S19)
 (REFER TO STANDARD 66kV STRUCTURE SCHEDULE C1072723 SHEET 1 & C1072724 SHEET 2 FOR DETAILS)

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

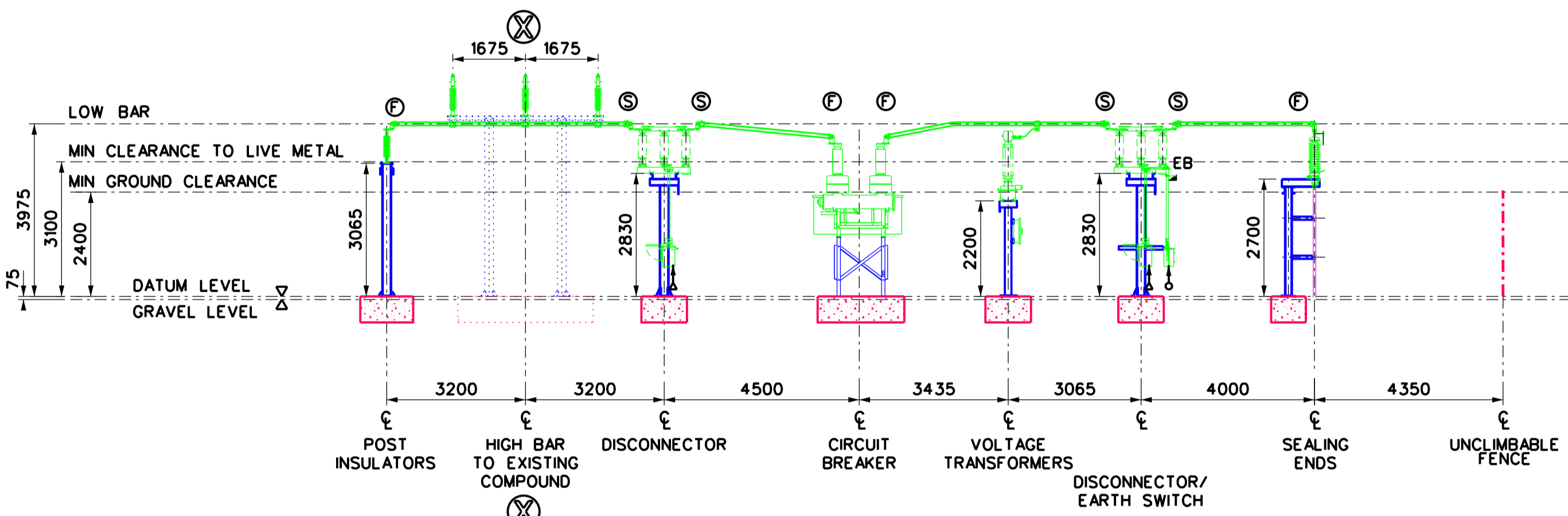
FLOODLIGHTS MOUNTED ON 3m POLE

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

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 TYPE	CONTINUOUS CURRENT RATING (Amp)	MAX UNSUPPORTED SPAN (mm)	APPROXIMATE WEIGHT PER METRE (kg)
NEW INSTALLATIONS			
Al. 90mm Dia, 6mm WALL THICKNESS	2000A	10400 or 6000*	4.320
Al. 60mm Dia, 4mm WALL THICKNESS	1200A	6700 or 3500*	1.950
HISTORIC INSTALLATIONS TO BE SUPPORTED			
50mm HDBC x 14swg	1050A	5485	3.013
50mm HDBC x 12swg	1140A	5485	3.174
75mm HDBC x 14swg	1500A	7620	3.757
75mm HDBC x 12swg	1700A	7920	4.854

*RESTRICTION DUE TO END FIXING TYPE (SEE TABLE 5.1 of ENATS 41-11)

SCHEDULE OF DRAWINGS TO C969471

		Lloyds Court, 78 Grey Street, Newcastle Upon Tyne, NE1 6AF	
STANDARD 66kV CUSTOMER CONNECTIONS SUBSTATION LAYOUT SHOWING COMPOUND EXTENSION FOR CONNECTION TO LOCAL METERING SUBSTATION		ISO A1 C.A.D.	
Sheet No.	Scale	1:100	
Prepared By	G COLES	Document Details	CONSTRUCTION STANDARDS
Modified	26.06.2017	Drawing No.	C1026316
Created	17.08.2013	Checked By	S. WILKINSON
		Revision	C LAYOUT UPDATED
		Notes	Y017S2121