

GROUNDWATER: WATER TO BE PUMPED FROM EXCAVATION TO PREVENT FLOODING.

13	14	
ER	DRAWING No.	ΩΤΥ
TION	TX/A1/4309135 REV. D	2
	112501 REV.B	2
	MP/00/2475 REV.0	2
	SSEN STOCK CODE 217473	6
	SSEN STOCK CODE 990182	6
	SSEN STOCK CODE 990189	2

58.009	
58.817	<sup>58.834</sup>
<sup>59.617</sup>	<sup>59.634</sup>
<sup>60.747</sup>	<sup>60.766</sup>

IN ADDITION TO THE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH CONSTRUCTING, MAINTAINING AND DEMOLISHING THE STRUCTURES ON THIS DRAWING, THE FOLLOWING SIGNIFICANT RISK INFORMATION SHOULD BE TAKEN INTO ACCOUNT WHEN PLANNING AND CARRYING OUT CONSTRUCTION, MAINTENANCE AND DEMOLITION

## CONSTRUCTION, OPERATION, MAINTENANCE & DEMOLITION

VEHICLE MOVEMENT: LIMIT THE MOVEMENT OF PLANT CLOSE TO EXCAVATION. ALL MOVEMENTS TO BE CONTROLLED BY

WORKING AT HEIGHT: BARRIER INSTALLED AROUND EXCAVATION. PROPER ACCESS TO BE USED e.g. LADDER etc.

WORKING IN EXCAVATION: TEMPORARY WORKS DESIGN REQUIRED & TO BE APPROVED PRIOR TO ANY ON SITE WORKS TAKING PLACE. ALL STAFF TO BE ADEQUATELY TRAINED. NO LONE WORKING IN EXCAVATION. FULL PPE TO BE WORN.

MANUAL HANDLING: ALL STAFF TO BE ADEQUATELY TRAINED. CORRECT MANUAL HANDLING TECHNIQUES TO BE USED.

BURIED SERVICES: SERVICES INFORMATION TO BE OBTAINED AND REVIEWED. EXISTING SERVICES TO BE LOCATED BY CAT SCANNING AND TRIAL HOLES, IF REQUIRED, PRIOR TO EXCAVATION WORKS BEGINNING.

PROXIMITY TO POTENTIALLY LIVE EQUIPMENT: ALL STAFF TO BE ADEQUATELY TRAINED. STRUCTURE SHOULD BE EARTHED.

SHARP OBJECT: ALL STAFF TO BE ADEQUATELY TRAINED.

	15	16
NOTES	5:	
1) A	LL DIMENSIONS IN mm L	INLESS OTHERWISE CONFIRMED.
2, A C(	CCORDANCE WITH SSEN	ECTRICAL CLEARANCES TO BE IN PRIMARY DISTRIBUTION SUBSTATION: IGN AND INSTALLATION STANDARD DOC No
SUBST	ATION MINIMUM	ELECTRICAL CLEARANCES
SUBSTAT		DANCE WITH SSEN PRIMARY DISTRIBUTION - DESIGN AND INSTALLATION STANDARD

DUL NO. PR-NET-SST-005				
DEE		VOLTAGE		
REF	REF CLEARANCE (mm)		11k V	
Е	PHASE TO EARTH	500	500	
Ph	PHASE TO PHASE	430	250	
S	DESIGN CLEARANCE FOR SAFETY	2900	2900	
SD	SAFETY DISTANCE	800	800	
Ds	WORKING & ACCESS CLEARANCE (VERTICAL)	2900	2900	
Dsh	WORKING & ACCESS CLEARANCE (HORIZONTAL)	2300	-	
IH	INSULATION HEIGHT (PEDESTRIAN ACCESS)	2400	2400	

3) FOR TOPOGRAPHICAL SURVEY AND PAS 128:2022 UTILITY SURVEY REFER TO FREEDOM DRAWING ROWNCAB-FREPP-SS-XX-SU-G-0001 REV. 01 DATED 05-01-23.

## LEGEND:

	NEW EQUIPMENT
	CABLE CONTAINMENT
-00	2.4m PALISADE FENCE
-00	2.4m PALISADE FENCE - REMOVABLE
	33kV CABLE
	11kV CABLE
	LINKBOX BONDING LEAD
	EXISTING/SURVEY DATA

## ABBREVIATION:

SE	CABLE SEALING END
ISC	DISCONNECTOR / ISOLATOR
IER	NEUTRAL EARTH RESISTOR
2	POST INSULATOR
X	TRANSFORMER
	PROPOSED LIGHTING POSITION
A	SURGE ARRESTER

## ASSOCIATED DRAWING:

SUBSTATION ELEVATIONS NRWNPRI-FREPP-SL-XX-DR-E-0002

SUBSTATION CABLE LAYOUT NRWNPRI-FREPP-EC-XX-DR-E-0001

BUILDING LAYOUT NRWNPRI-FREPP-BL-XX-DR-E-0001

SUBSTATION CDM LAYOUT NRWNPRI-FREPP-SL-XX-DR-E-0006

05	18/03/24	AMENDED AS PER COMMENTS			V.J.	V.S.
04	22/01/24	AMENDED AS PER COMMENTS			J.V	S.V
03	01/12/23	AMENDED AS PER COMMENTS			J.V	S.V
02	01/12/23	AMENDED AS PER COMMENTS		D.W.M	J.V	S.V
01	01/12/23	FIRST ISSUE		D.W.M	J.V	S.V
REV	DATE	DESCRIPTION		DRN	СНК	APP
STATUS SCALE			SIZE			
FOR GATE 3 APPROVAL 1:100			1:100	A1		

CONTRACTOR

CLIENT



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> Scottish & Southern Electricity Networks

SHEPD – SCOTTISH HYDRO ELECTRIC POWER DISTRIBUTION DRAWING TITLE

ALTERNATIVE SUBSTATION ELECTRICAL LAYOUT

N/A	05		
FREEDOM DRAWING NUMBER	REVISION		
NRWNPRI-FREPP-SL-XX-DR-E-0011	01 OF 01		
SSEN DRAWING NUMBER	SHEET		
NEW ROWNHAMS 33/11kV SUBSTATION			
SITE NAME			
GREEN RECOVERY – LOT 1 – SEPD ROWNHAMS NEW MSA TRANSFORMER & BOARD ARRANGEMENT			
PROJECT NAME			