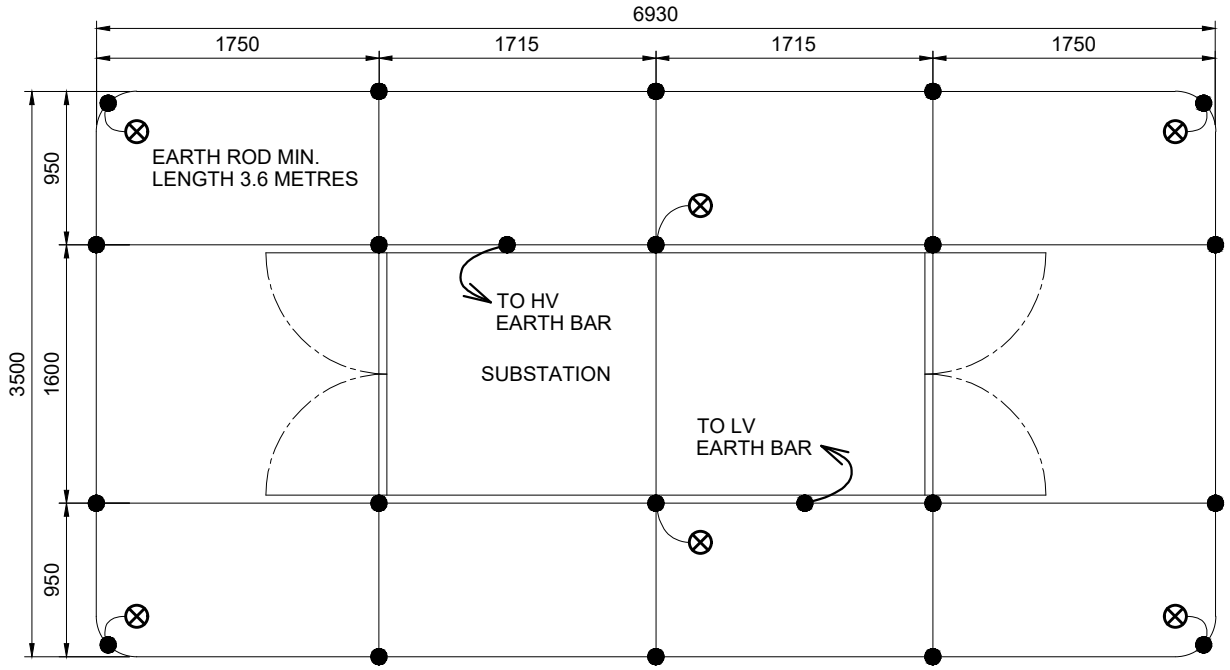
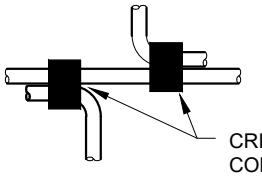
CAUTION : Printed document is uncontrolled.

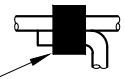


EARTH GRID PLAN

SCALE 1:50



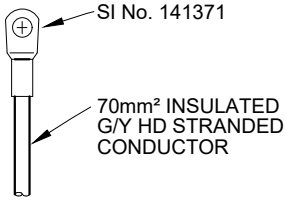
EARTH MAT
CROSS JOIN
(CRIMPED)
NTS



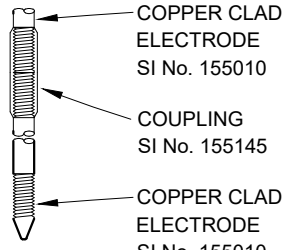
EARTH MAT
TEE JOINT
(CRIMPED)
NTS

CRIMP TYPE 1
SI No. 147350
NTS

CRIMP TYPE 2
SI No. 155134
NTS



EARTH TAIL
NTS



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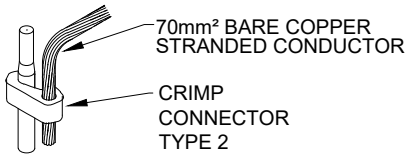

NTS

LEGEND:

- EARTH WIRE
- CRIMP JOINTS
- ELECTRODE 3.6m (MINIMUM)
- EARTH TAIL

NOTES:

1. DESIGNED TO SUIT SCHNEIDER 500kVA, 11kV OR 22kV KIOSK SUBSTATION.
2. STANDARD DESIGN ONLY TO BE USED WHERE SITE CONDITIONS ALLOW. REFER KIOSK DESIGN STANDARD, SECTION 2 FOR SUITABILITY.
3. DEPTH OF EARTH MAT MUST NOT BE LESS THAN 500mm BELOW FINISHED SUBSTATION GROUND LEVEL.
4. WHERE COPPER CLAD EARTH RODS ARE USED TO THEY MUST NOT BE BENT OVER TO REMOVE "EXCESS" BELOW THE SURFACE. EXCESS MUST BE CUT OFF.
5. EARTHING TO BE RUN AS FAR AS POSSIBLE IN ONE CONTINUOUS LENGTH WITH NO SHARP BENDS.
6. ALL CONNECTIONS ON EARTH GRID TO BE CRIMPED WITH APPROVED CRIMPS.
7. EARTH GRID 70mm² Cu CONDUCTOR.
8. EARTH GRID CONNECTIONS 120mm² Cu CONDUCTOR.
9. FOR PLINTH DETAIL REFER TO KS-303
10. FOR CONDUIT DETAILS REFER TO KS-314
11. FOR CIVIL FOUNDATIONS REFER TO D-KS1-0337-SD-001

3/10 EARTHING SYSTEM BOM : 730027

MATERIAL	QTY	S.I. NO.
70MM2 BARE COPPER CONDUCTOR	50 M	102311
EARTH ROD 1800 MM	12	155010
EARTH ROD COUPLING	6	155145
CRIMP - CONDUCTOR TO COND.	18	147350
CRIMP - CONDUCTOR TO ROD	6	155134
70MM2 INSULATED CONDUCTOR	5 M	94433
CRIMP LUG FOR 70MM2 CONDUCTOR	2	141371

ALTERATIONS

TITLE REVISED

REV F

PROJECT 000000

DESIGNED BY X.XXXX

CHECKED BY B. NARAYANASAMY DATE 29/AUG/2023

APPROV. BY J.HUGHES DATE 29/AUG/2023

DRAWN BY G.HALL

TasNetworks

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DIMENSIONS ARE IN MILLIMETRES. UNLESS OTHERWISE STATED.

DRAWN	C5 PRO-SOLUTIONS
CHECKED	G.HALL
APPROVED	DAVID ELLIS
DATE	05/02/2016

TITLE

KIOSK SUBSTATION
EARTH GRID AND FITTINGS
TYREE 750/1000 kVA AND SCHNEIDER 3/10 KIOSKS

SCALES: AS INDICATED

SIZE: A4

KS-310

REVISION: F

12/12/2022