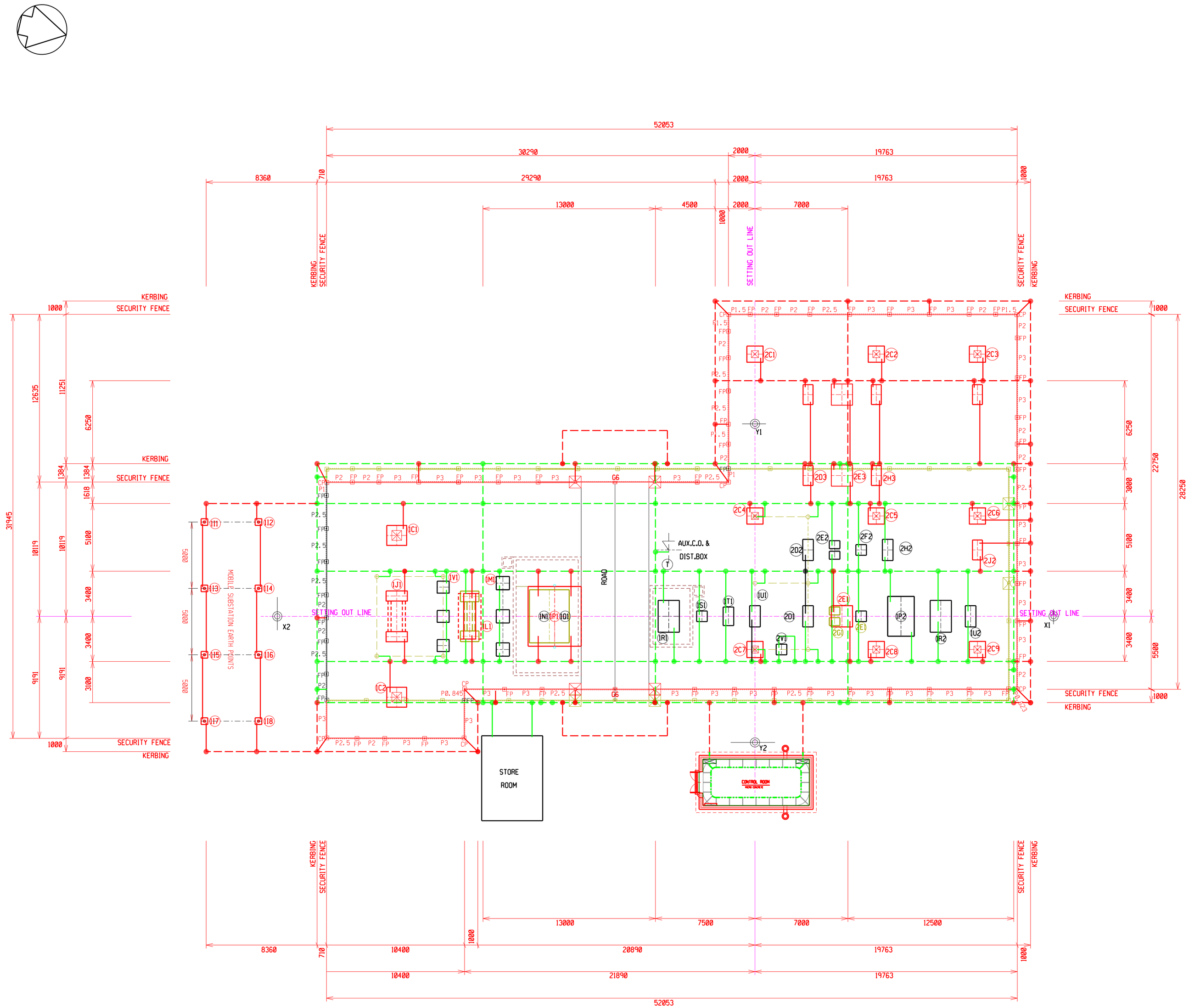

SECURITY FENCE SCHEDULE (2,4m STEEL PALISADE)

REFER TO ER00045-17-05-00 FOR FURTHER SECURITY FENCE DETAILS

EARTHING NOTES

1. FOR DETAILS OF STRUCTURE EARTHS, SEE DRG No: D-DT-5240 SHEETS 02, 03, 04 AND 19
2. FOR DETAILS OF TRANSFORMER EARTHING, SEE TRANSFORMER PLINTH DETAIL
3. EARTHMAT TO BE 110mm BLACK COPPER ROD BURIED AT MIN 1m BELOW GROUND LEVEL
4. EARTHING TAILS : GATE POSTS - 50x3mm FLAT COPPER
   EQUIPMENT - 50x3mm FLAT COPPER (CONCEALED)
5. ALL CONNECTIONS TO EARTHMAT TO BE BRAZED (SIBRALLOY) WHERE APPLICABLE OR EXOTHERMIC WELDED IN ACCORDANCE WITH DRG No: D-DT-5240 SHEETS 01 & 02
6. SECURITY FENCE TO BE EARTHED AT MAXIMUM INTERVALS OF 18m
   FINAL CONNECTION TO FENCE POSTS TO BE MADE BELOW FINAL YARD STONE LEVEL
   EACH GATE POST TO BE EARTHED 70mm^2 FLEXABLE TAIL LUGGED AND BOLTED TO EACH GATE LEAF
7. WHERE APPLICABLE, THE TWO CLOSEST LEGS OF EACH HV TERMINAL TOWER SHALL BE CONNECTED TO THE EARTHMAT WITH 110mm COPPER ROD, BURIED 1000mm MINIMUM BELOW FINAL TERRACE LEVEL
8. EARTHMAT HAS BEEN DESIGNED FOR 2.8056-kA

LEGEND

EARTHMAT	110mm COPPER ROD
EQUIPMENT EARTH TAIL	50x3mm FLAT COPPER
TRANSFORMER EARTH TAILS	2x 116mm Cu COATED MS BAR
EARTHMAT TO EARTHMAT 'T' JOINT	110mm COPPER ROD
EARTHMAT TO EARTHMAT 'X' JOINT	110mm COPPER ROD
EARTHMAT TO TAIL 'T' JOINT	50x3mm FLAT COPPER
FENCE TO TAIL	50x3mm FLAT COPPER
EQUIPMENT TO EARTHMAT TAIL	50x3mm FLAT COPPER

REV	DRAWN	CHKD	APPROVED	DATE	REVISION DESCRIPTION
01	SN	TM MFB	PDC RHK	25/01/19	YARD EXTENSION
00	SN	MFB	RHK	25/10/18	REDRAWN IN CAD AND SUPERSEDES D-WN-32-04-00

CHECKED: G.V.S 02/09/87
DRAWN: DJL 27/07/87
SCALE: 1:150
AUTHORIZED: D.S.O 23/09/87

Eskom Distribution

KLIPSPRUIT SUBSTATION
88/22-kV
EARTH MAT AND SECURITY FENCE PLAN

ER00045		
SET	SHEET	REVISION
17	04	02

A1