



PROTECTION CT'S

- 1 TRANSFORMER HV BUSHINGS
BD BIASED DIFFERENTIAL
HVREF HIGH VOLTAGE RESTRICTED EARTH FAULT
SPARE
- 2 HV NEUTRAL
HVREF HIGH VOLTAGE RESTRICTED EARTH FAULT
HVCHECK HIGH VOLTAGE NEUTRAL CHECK
- 3 LV NEUTRAL
SBF STANDBY EARTH FAULT
LVREF LOW VOLTAGE RESTRICTED EARTH FAULT
- 4 11kV SWITCHGEAR
a INCOMING CIRCUITS
BZ BUS ZONE
DDC/DC DIRECTIONAL OVERCURRENT & OVERCURRENT
LVREF LOW VOLTAGE RESTRICTED EARTH FAULT
BD BIASED DIFFERENTIAL
b FEEDER CIRCUITS
SDCKR
DCEF OVERCURRENT & EARTH FAULT
BZ BUS ZONE

DRAWN	A.J.R.W.				
DATE	26/05/2004				
TRACED		REFERENCE DRAWINGS:	REVISIONS:	BY:	DATE:
CHIEF DRAUGHTSMAN		ETHEKWINI ELECTRICITY			
PLANNING ENGINEER					
DESIGN ENGINEER					
PROTECTION ENGINEER					
PLAN/REQD. ENGINEER					
PLAN/REQD. MANAGER		TYPICAL 132kV & 11kV SCHEMATIC			
APPROVED					
A.J. DOLD		SCALE:	N.T.S.	DRAWING NUMBER	TD 1
DIRECTOR	TRANSMISSION				REV: