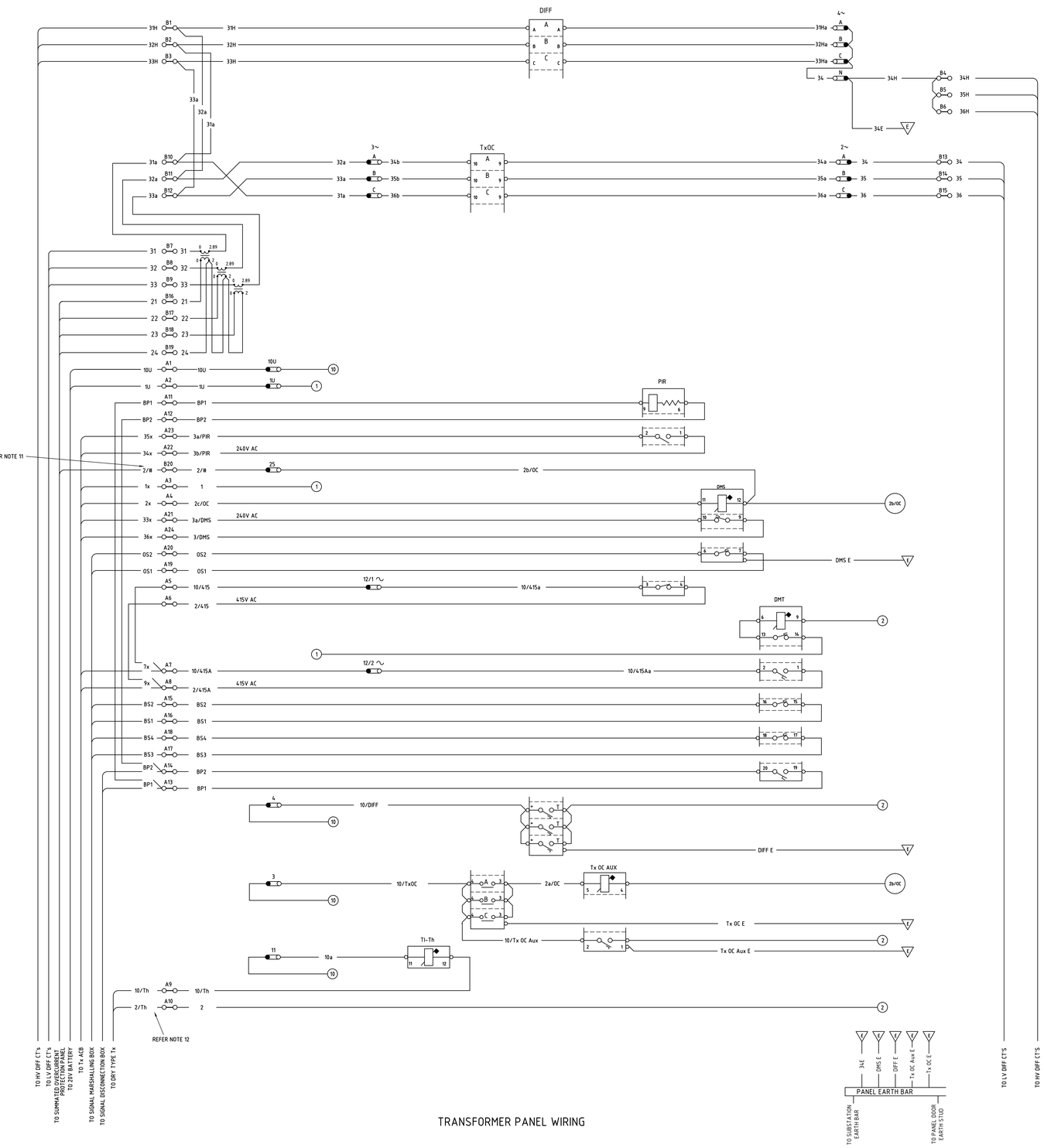
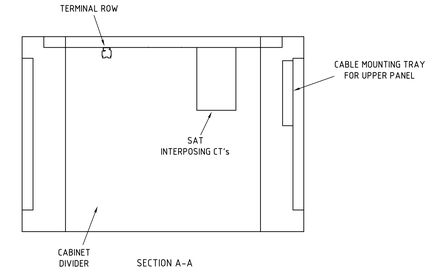
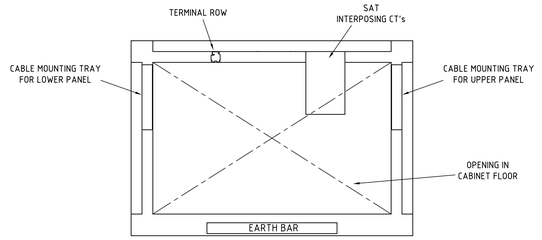
CABLE CONNECTIONS	TERMINALS	SATURATING INTERPOSING CT's	DC LINKS	LOOPING	AC LINKS	THERMAL TRIP INDICATOR	TRANSFORMER OVERCURRENT RELAY	DIFFERENTIAL RELAY	TRANSFORMER OVERCURRENT TRIP INDICATOR	PILOT INTERLOCK RELAY	DMS RELAY	DMT RELAY	AC LINKS	LOOPING	TERMINALS	CABLE CONNECTIONS



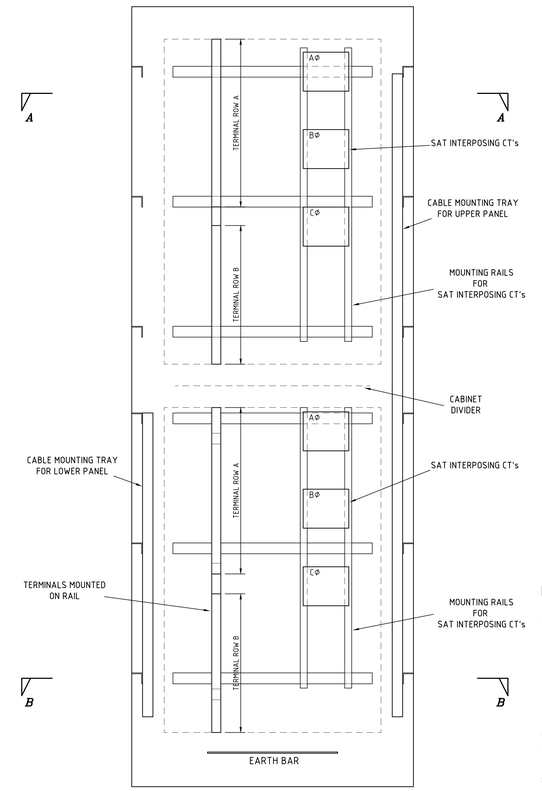
TRANSFORMER PANEL WIRING



SECTION A-A



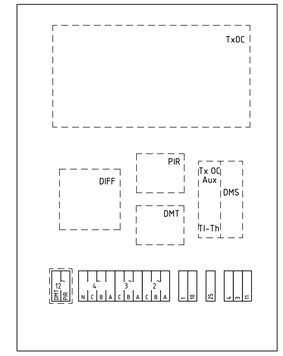
SECTION B-B



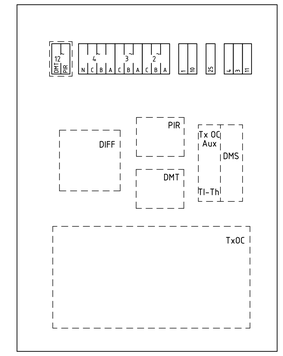
INSIDE VIEWED FROM FRONT (BEHIND DOORS)

TERMINAL & SAT INTERPOSING CT LOCATION

SCALE 1:5



UPPER POSITION



LOWER POSITION

DOOR (REAR VIEW)

PANEL LAYOUT

SCALE 1:5

REFERENCE DRAWINGS	
CITY BASEMENT SUBSTATIONS WITH E TYPE LV BOARD CABLING	A0-178233
CITY UPPER LEVEL SUBSTATIONS WITH E TYPE LV BOARD CABLING	A0-178234
CITY SUBSTATIONS WITH E TYPE LV BOARD CABLE SCHEDULES	B1-178235
CITY SUBSTATIONS WITH E TYPE LV BOARD AC/DC SCHEMATICS	A0-178236
DISTRIBUTION SUBSTATIONS CABINET TYPE RELAY PANELS DETAILS	A0-205952
CITY SUBSTATIONS WITH E TYPE LV BOARD PROTECTION CABINETS DRILLING	B1-205953
DISTRIBUTION SUBSTATIONS - MOULDED LINK & LABEL DETAILS	B1-178241
DISTRIBUTION SUBSTATIONS - PROTECTION RELAYS DRILLING DETAILS	A2-191086
LOOM METHOD OF PANEL WIRING	A1-52474
UTILUX 3820 RAIL MOUNTED TERMINALS	A3-118547
AUXILIARY CURRENT TRANSFORMER MARK 11	A1-122034

LEGEND		
SYMBOL	DESCRIPTION	TYPE
TxOC	TRANSFORMER OVERCURRENT RELAY	CDG 33
Tx OC AUX	TRANSFORMER OVERCURRENT AUXILIARY TRIP INDICATOR	TI-2 CITY
DIFF	DIFFERENTIAL RELAY	K3M
TI-Th	THERMAL TRIP INDICATOR	TI-2 CITY
PIR	PILOT INTERLOCK RELAY	PIR
DMT	TRIP AND SIGNAL RELAY	DMT
DMS	SIGNAL AND LOCKOUT RELAY	TI-3 (0.2)

NOTES

1. THIS DRAWING SHOWS THE WIRING FOR THE TRANSFORMER/TRANSFORMER FREE STANDING CITY PROTECTION CABINET TO BE USED IN CHAMBER TYPE CITY SUBSTATIONS AND IS TO BE READ IN CONJUNCTION WITH NETWORK STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE.
2. THIS FREE STANDING PROTECTION CABINET IS TO BE CONSTRUCTED IN ACCORDANCE WITH DRAWING A0-205952 AND DRILLED TO DRAWING B1-205953.
3. THE PIR TRIP LINKS ARE TO BE FITTED WITH CLEAR PLASTIC COVERS ON BOTH THE FRONT AND REAR OF THE PANEL.
4. SELF ADHESIVE CAUTION LABELS ARE TO BE FIXED TO THE FRONT AND REAR OF THE PANEL DOOR AS SHOWN. THESE LABELS ARE TO READ: 415V AC
5. SUBSTITUTE THE APPROPRIATE TRANSFORMER NUMBER WHERE INDICATED BY #.
6. ALL PANEL WIRING IS TO BE 7/0.67, 0.6kV V75 GRADE WITH PVC INSULATION. ALL INSULATION IS TO BE GREY COLOURED EXCEPT FOR EARTHING WIRES WHICH ARE TO BE GREEN/YELLOW.
7. A DOT ON LINKS (⊂●⊃) INDICATES BOTTOM TERMINAL.
8. EARTH CONNECTIONS DESIGNATED ⏚ ARE TO BE CONNECTED INDIVIDUALLY TO THE EARTH BAR.
9. FOR LOOM METHOD OF WIRING REFER TO DRAWING A1-52474.
10. THE COMMON CONNECTIONS BETWEEN POINTS DESIGNATED BY (1) (2) (10) etc ARE TO BE DETERMINED ON SITE AND SHOULD BE ACHIEVED BY THE SHORTEST POSSIBLE ROUTE. HOWEVER, IN ALL CASES NO MORE THAN TWO WIRES SHOULD BE CONNECTED TO ANY LINKS OR RELAY TERMINAL.
11. SUBSTITUTE THE APPROPRIATE TRANSFORMER NUMBER WHERE INDICATED BY #.
12. WHEN A DRY TYPE TRANSFORMER IS USED, THE THERMAL RELAY TRIP INDICATOR (Th-TI) IS TO BE CONNECTED.

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

1. REF F2, WIRES 1x & 2x WERE 1 & 2c/OC RESPECTIVELY, WIRES 33x & 36x WENT TO 20V BATTERY CABLE. E.KAMROUZ 30-11-2010
K.GEOGHEGAN A.HAYES
APPROVED P. JARVIS
PM DS 209-1-55-2

2. NEW AUSGRID BORDER & LOGO ADDED 30-09-2013
R.LALLAA T.LAMPARD
APPROVED

NETWORK STANDARD

Ausgrid

DESIGN SERVICES
24 CAMPBELL ST SYDNEY NSW 2000

SCALE	AS SHOWN
DESIGNED	-
DRAWN	P. JARVIS
CHECKED	P.EASTON
APPROVED	P.EASTON
DATE	7.12.09
PRJTRK No.	-
PROJECT NUMBER	208/9/9/4

CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD FREE STANDING PROTECTION CABINET TRANSFORMER/TRANSFORMER CABINET WIRING AND CONNECTIONS

DRAWING No 205954 | SHEET 1 | AMD 2 | SIZE A0

20111014

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