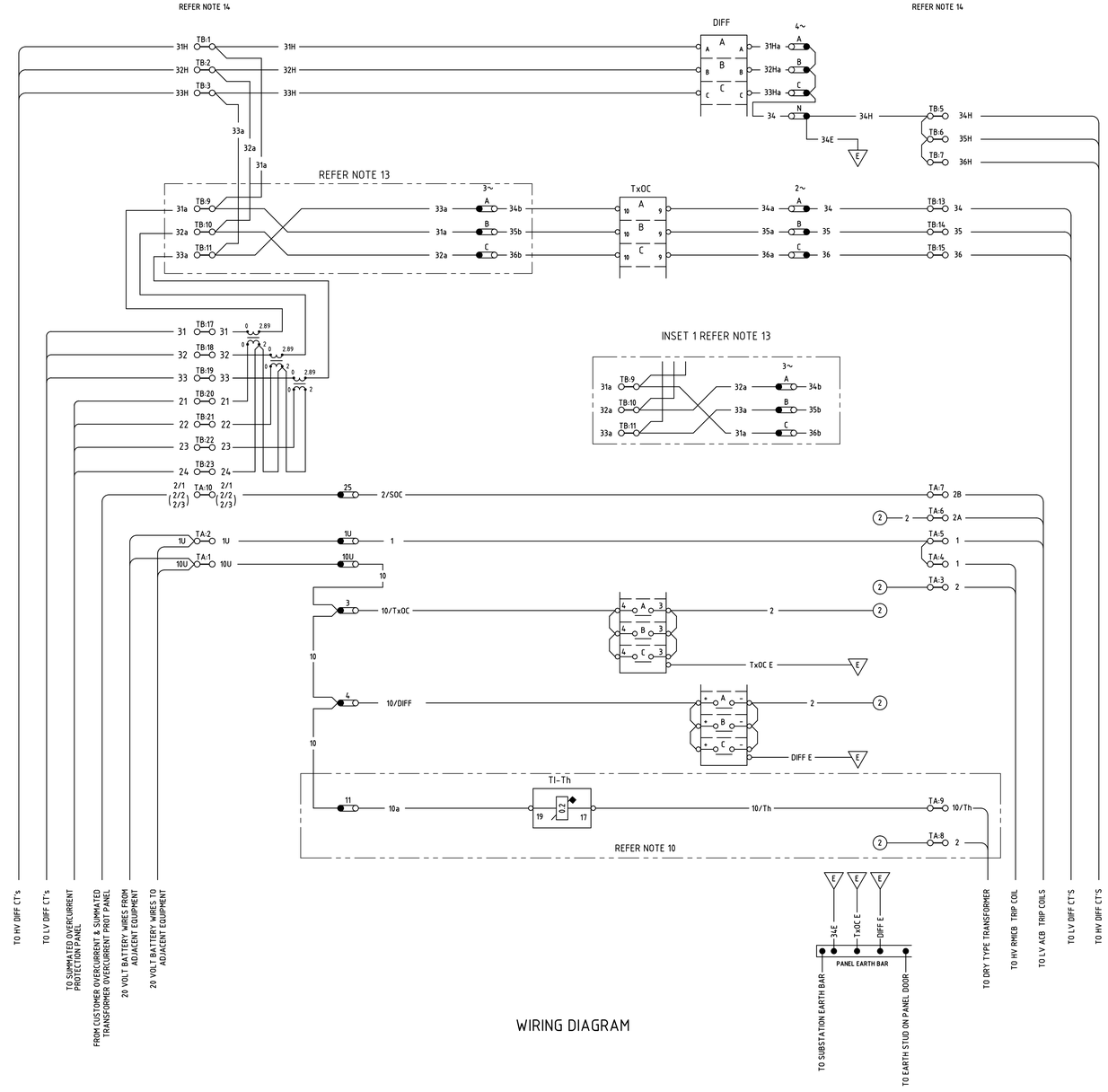
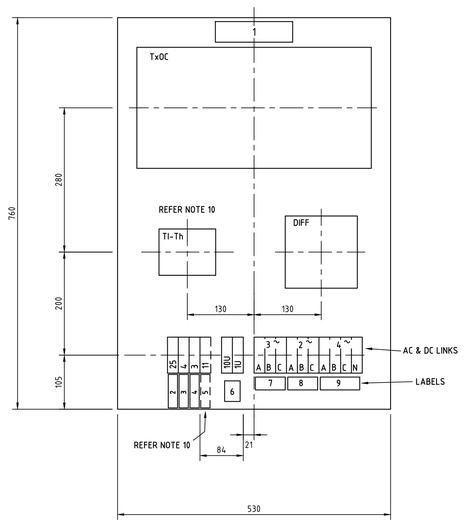
CABLE CONNECTIONS	TERMINALS	SATURATING INTERPOSING CT's	DC LINKS	LOOPING	AC LINKS	TRIP INDICATOR	TRANSFORMER OVERCURRENT RELAY	DIFFERENTIAL RELAY	AC LINKS	LOOPING	TERMINALS	CABLE CONNECTIONS
	REFER NOTE 14										REFER NOTE 14	



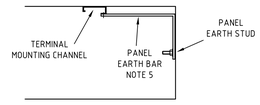
WIRING DIAGRAM



DOOR (FRONT VIEW)

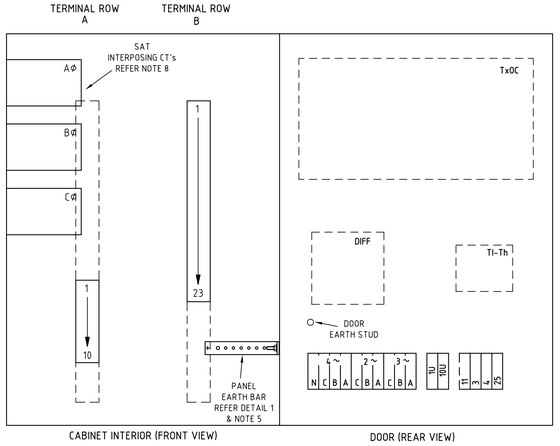
PANEL LAYOUT

REFER NOTE 9
SCALE 1:5



DETAIL 1

CABINET INTERIOR (PLAN VIEW)
EARTH BAR LOCATION
SCALE 1:5



CABINET INTERIOR (FRONT VIEW)

DOOR (REAR VIEW)

REFERENCE DRAWINGS

RMICB SUBSTATIONS WITH E TYPE LV BOARDS CABLING DIAGRAM & SCHEDULE	A0-178231
RMICB SUBSTATIONS WITH E TYPE LV BOARDS AC & DC SCHEMATICS	A0-178232
DISTRIBUTION SUBSTATIONS LABELS & MOULDED LINK DETAILS	B1-178241
DISTRIBUTION SUBSTATIONS PROTECTION RELAY DRILLING DETAILS	A2-191086
LOOM METHOD OF PANEL WIRING	A1-52474
WALL MOUNTED RELAY PANEL STEELWORK	A1-28632
UTILUX H3820 RAIL MOUNTED TERMINALS	A3-118547

LEGEND

SYMBOL	DESCRIPTION	TYPE
DIFF	DIFFERENTIAL RELAY	K3M
TxOC	TRANSFORMER OVERCURRENT RELAY	CDG 33
TI-Th	THERMAL TRIP INDICATOR (DRY TYPE TRANSFORMERS)	TI3
⊶⊷	TERMINALS TYPE UTILUX TYPE H3820 WITH UTILUX H2233 MOUNTING CHANNEL	

REFER NOTE 10

NOTES

1. THIS DRAWING SHOWS THE TRANSFORMER PROTECTION PANEL & WIRING TO BE USED WITH RMICB CHAMBER TYPE SUBSTATIONS AND SHOULD BE READ IN CONJUNCTION WITH NETWORK STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE.
2. 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 EARTH WIRES WHICH ARE TO BE GREEN/YELLOW.
3. A DOT ON A LINK (⊶●) INDICATES BOTTOM TERMINAL.
4. THE COMMON CONNECTION BETWEEN POINTS DESIGNATED BY (2) 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 TERMINATED AT ANY LINK OR RELAY TERMINAL.
5. A 25mm x 4mm HDHC COPPER EARTH BAR IS TO BE MADE AND BOLTED TO THE CABINET EARTH STUD AND THE TERMINAL ROW B MOUNTING CHANNEL AS SHOWN IN DETAIL 1. THE EARTH BAR IS TO BE DRILLED TO ACCOMMODATE INDIVIDUAL CONNECTIONS FROM THE PANEL DOOR, LINKS, RELAY CASES AND THE 6mm CABLE FROM THE SUBSTATION EARTH BAR. CONNECTIONS ARE TO BE EVENLY SPACED SPACED ALONG LENGTH OF EARTH BAR.
6. EARTH CONNECTIONS DESIGNATED (E) ARE TO BE CONNECTED INDIVIDUALLY TO THE EARTH BAR.
7. FOR LOOM METHOD OF WIRING REFER TO DRAWING A1-52474.
8. THE SATURATING INTERPOSING CT's ARE TO BE MOUNTED ON THE SIDE OF THE CABINET INTERIOR IN THE POSTIONS SHOWN. THE MOUNTING IS TO BE UNDERTAKEN SUCH THAT THERE IS SUFFICIENT CLEARANCE TO RELAY TERMINALS WHEN THE DOOR IS CLOSED. TERMINAL ROW A IS TO BE POSITIONED ON THE LOWER PORTION OF THE MOUNITNG CHANNEL.
9. THIS WALL MOUNTED PANEL IS TO BE CONSTRUCTED IN ACCORDANCE WITH MARK 1 OF DWG A2-28630.
10. WHEN A DRY TYPE TRANSFORMER IS USED, THE THERMAL RELAY (Th) AND A TRIP INDICATOR ARE TO BE CONNECTED. THE THERMAL RELAY IS LOCATED AND SUPPLIED ON THE TRANSFORMER BY THE TRANSFORMER MANUFACTURER. THE TRIP INDICATOR IS LOCATED ON THE TRANSFORMER PROTECTION PANEL AND IS SUPPLIED BY AUSGRID.
11. LABELS ARE TO BE MADE AND POSITIONED AS SHOWN ON DRAWING B1-178241. DRILLING FOR RELAYS AND LINKS ARE SHOWN ON DRAWINGS B1-178241 AND A2-191086.
12. THE TRANSFORMER NUMBER FOR THE RELEVANT SUBSTATION IS TO BE ENGRAVED LABEL 1 WHERE # IS SHOWN.
13. WIRING SHOWN IS FOR THE STANDARD AUSGRID DY1 TRANSFORMER CONNECTED IN A DY1 ARRANGEMENT. FOR A DY1 TRANSFORMER CONNECTED IN A DY11 ARRANGEMENT, USE INSET 1.
14. ON THE WIRING DIAGRAM TERMINALS ARE NOMINATED AS TERMINAL ROW:TERMINAL NUMBER , eg TB:4 MEANS THE 4th TERMINAL ON TERMINAL ROW B.

LABEL DETAILS

REFER NOTE 12

LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF
1	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	8 8	TRANSFORMER #	1
2	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1 LINE 2 LINE 3	2.5 2.5 2.5	CUSTOMER & SUMMATED TRANSFORMER OVERCURRENT TRIP LINK 25	1
3	C2	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	DIFFERENTIAL BATTERY LINK 4	1
4	C2	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER OVERCURRENT BATTERY LINK 3	1
5	C2	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	THERMAL RELAY BATTERY LINK 11	1
6	C3	TRAFFOLYTE RED/WHITE/RED	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	10 1 20V DC BUS MASTER BATTERY LINKS	1
7	C10	GRAVOPLY No 259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	A B C TRANSFORMER OVERCURRENT RELAY 3~ DELTA TEST LINK	1
8	C10	GRAVOPLY No 259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3 LINE 4	4.0 2.5 2.5 2.5	A B C TRANSFORMER OVERCURRENT RELAY 2~ TEST LINK	1
9	C1	GRAVOPLY No 259 PINE GREEN/WHITE	LINE 1 LINE 2 LINE 3	4.0 2.5 2.5	A B C N DIFFERENTIAL RELAY TEST LINKS 4~	1

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS

1. TERMINAL DESIGNATION UPDATED. NOTE 14 ADDED. REF DWGS DELETED FROM LEGEND. REF DWG A2-191086 ADDED. NOTES 5 & 11 ALTERED. PN 208/6/9/2 PWJ 10.6.08 CHECKED: DHB APPROVED: MJB

2. CABLE CONNECTIONS TO BATTERY CHANGED/ADDED INTO PANEL. PN 208/6/9/2 PWJ 30.6.08 CHECKED: PIE APPROVED: PIE

3. NEW AUSGRID BORDER & LOGO ADDED. PWJ 30-09-2013 CHECKED: PJ LAMPARD APPROVED: TL LAMPARD

NETWORK STANDARD

Ausgrid

DESIGN SERVICES
24 CAMPBELL ST SYDNEY NSW 2000

SCALE	AS SHOWN
DESIGNED	-
DRAWN	PWJ
CHECKED	PIE
APPROVED	MT
DATE	14.4.08
PRJTRK No.	-
PROJECT NUMBER	208/9/9/4

RMICB SUBSTATIONS WITH E TYPE LV BOARD WALL MOUNTED TRANSFORMER PROTECTION PANEL DRILLING AND WIRING

DRAWING No 187815 | SHEET - | AMD 3 | SIZE B1

20111014