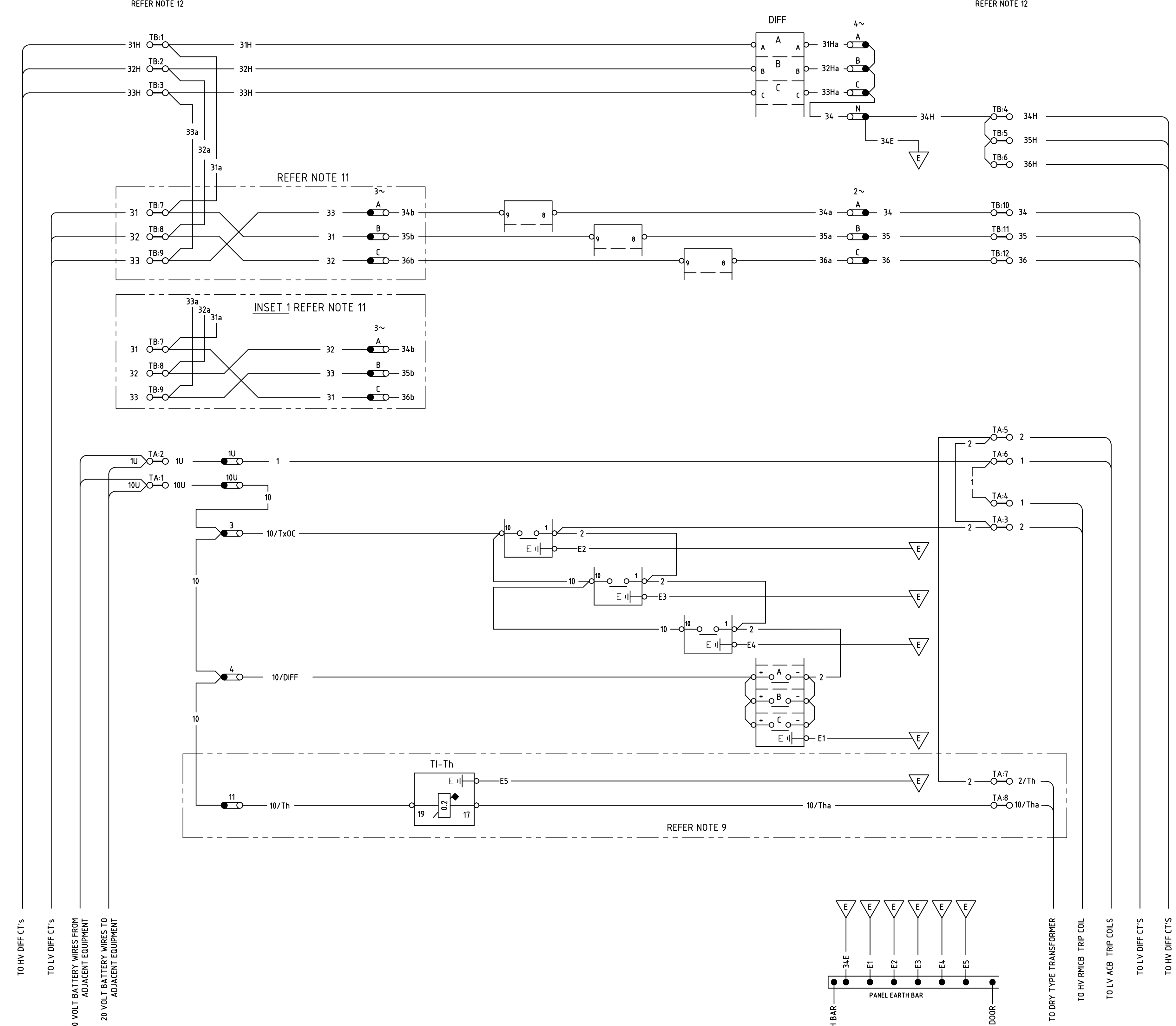
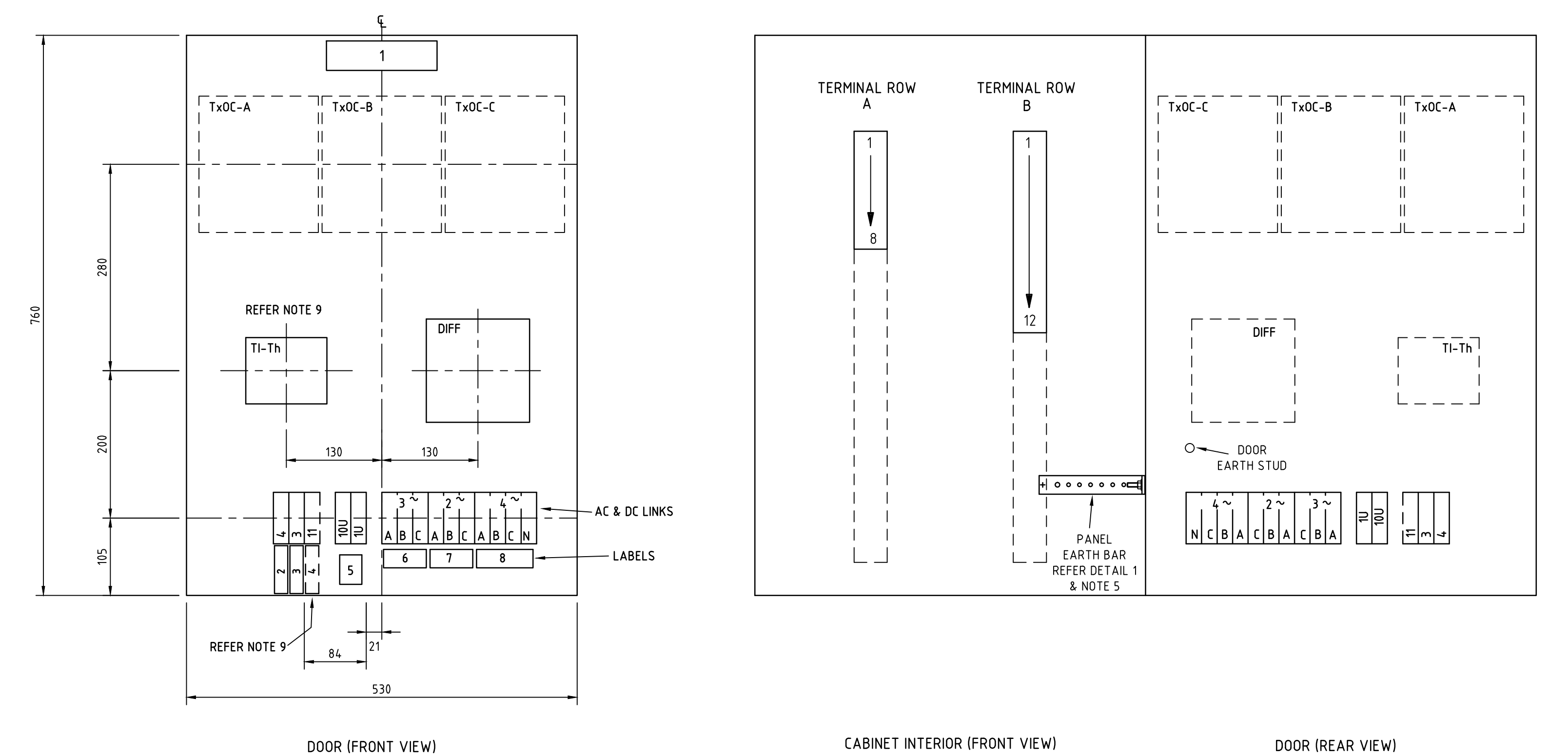


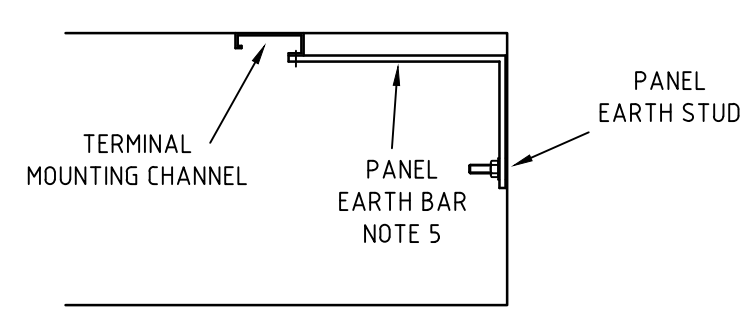
CABLE CONNECTIONS	TERMINALS	DC LINKS	LOOPING	AC LINKS	TRIP INDICATOR	TxOC-A RELAY	TxOC-B RELAY	TxOC-C RELAY	DIFFERENTIAL RELAY	AC LINKS	LOOPING	TERMINALS	CABLE CONNECTIONS
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WIRING DIAGRAM



PANEL LAYOUT  
REFER NOTE 8  
SCALE 15



DETAIL 1  
CABINET INTERIOR (PLAN VIEW)  
EARTH BAR LOCATION  
SCALE 15

NOTES:

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH NETWORK STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE. SHOWN ARE THE PROTECTION PROTECTION PANEL LAYOUT AND WIRING DIAGRAMS WHICH ARE TO BE USED IN:
  - RMICB SINGLE TRANSFORMER KIOSK TYPE SUBSTATIONS.
  - RMICB SINGLE TRANSFORMER CHAMBER TYPE SUBSTATIONS WHERE THERE MAY BE NO PROVISION FOR EXPANSION TO A MULTI TRANSFORMER ARRANGEMENT.
- 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.
- A DOT ON A LINK ( ) INDICATES BOTTOM TERMINAL.
- ALL WIRING SHOULD BE ACHIEVED BY THE SHORTEST POSSIBLE ROUTE. HOWEVER IN ALL CASES NO MORE THAN TWO WIRES SHOULD BE TERMINATED AT ANY LINK, CONNECTION TERMINAL OR RELAY TERMINAL.
- 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 ALONG LENGTH OF EARTH BAR.
- EARTH CONNECTIONS DESIGNATED  $\nabla$  ARE TO BE CONNECTED INDIVIDUALLY TO THE EARTH BAR.
- FOR LOOM METHOD OF WIRING REFER TO DRAWING 52474.
- THIS WALL MOUNTED PANEL IS TO BE CONSTRUCTED IN ACCORDANCE WITH MARK 1 OF DRAWING 28630.
- WHEN A DRY TYPE TRANSFORMER IS USED, THE THERMAL RELAY (TI) 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.
- LABELS ARE TO BE MADE AND POSITIONED AS SHOWN ON DRAWING 17824.1. DRILLING FOR LINKS AND RELAYS ARE SHOWN ON DRAWINGS 17824.1 AND 191086.
- 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.
- ON THE WIRING DIAGRAM TERMINALS ARE NOMINATED AS TERMINAL ROW/TERMINAL NUMBER, eg TB.4 MEANS THE 4TH TERMINAL ON TERMINAL ROW B.

REFERENCE DRAWINGS		
RMICB SUBSTATIONS WITH E TYPE LV BOARDS CABLING DIAGRAM & SCHEDULE	178231	
RMICB SINGLE TRANSFORMER SUBSTATIONS AC & DC SCHEMATICS	237230sh01	
DISTRIBUTION SUBSTATIONS LABELS & MOULDED LINK DETAILS	17824.1	
DISTRIBUTION SUBSTATIONS PROTECTION RELAY DRILLING DETAILS	191086	
LOOM METHOD OF PANEL WIRING	52474	
WALL MOUNTED RELAY PANEL STEELWORK	28632	
UTILUX H3820 RAIL MOUNTED TERMINALS	11854.7	

LEGEND		
SYMBOL	DESCRIPTION	TYPE
	DIFFERENTIAL RELAY	K3M
	TRANSFORMER OVERCURRENT RELAY	CO-9
	TRANSFORMER OVERCURRENT RELAY	CO-9
	TRANSFORMER OVERCURRENT RELAY	CO-9
	THERMAL TRIP INDICATOR (DRY TYPE TRANSFORMERS)	TI3
	TERMINALS TYPE UTILUX TYPE H3820 WITH UTILUX H2233 MOUNTING CHANNEL	

LABEL DETAILS						
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 PROTECTION PANEL	1
2	C2	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	DIFFERENTIAL BATTERY LINK	1
3	C2	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	TRANSFORMER OVERCURRENT BATTERY LINK	1
4	C2	GRAVOPLY No.200 WHITE/BLACK	LINE 1 LINE 2	2.5 2.5	THERMAL RELAY BATTERY LINK	1
5	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
6	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
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 TEST LINK	1
8	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	1

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS	NETWORK STANDARD  570 George Street SYDNEY NSW 2000	SCALE DESIGNED - DRAWN L.MARTINUZZI CHECKED M.BENNETT APPROVED M.BENNETT DATE 20/03/2015 PRJTRK No. - PROJECT NUMBER OPEX-1831-1-3-1	AS SHOWN - - - - - -	RMICB SINGLE TRANSFORMER SUBSTATIONS WALL MOUNTED TRANSFORMER PROTECTION PANEL LAYOUT AND WIRING	DRAWING No 237230 SHEET 2 AMD 0 SIZE B1
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