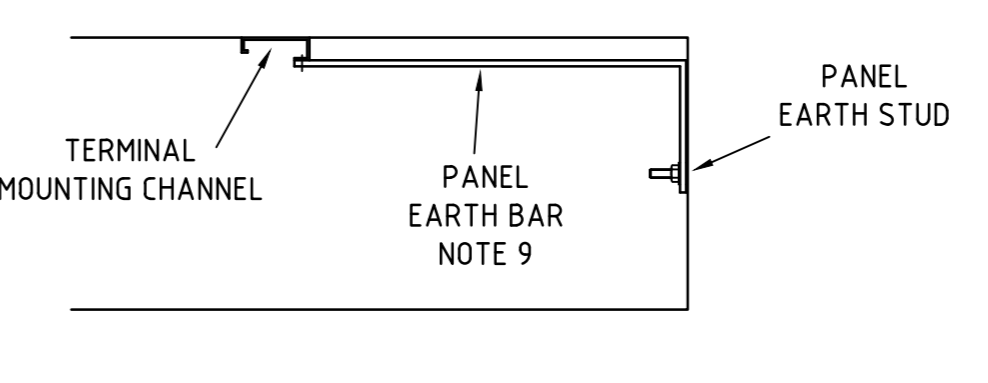
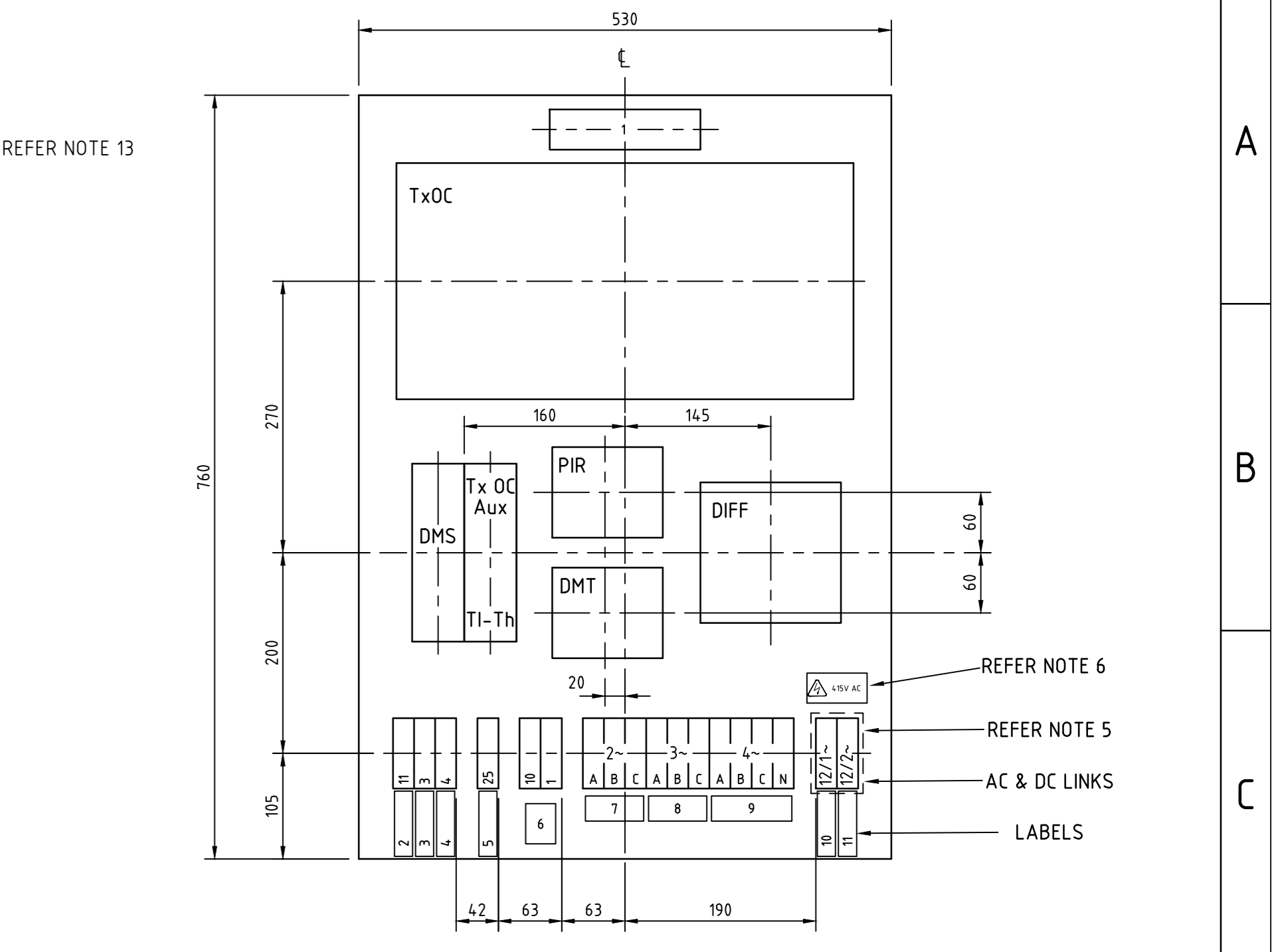
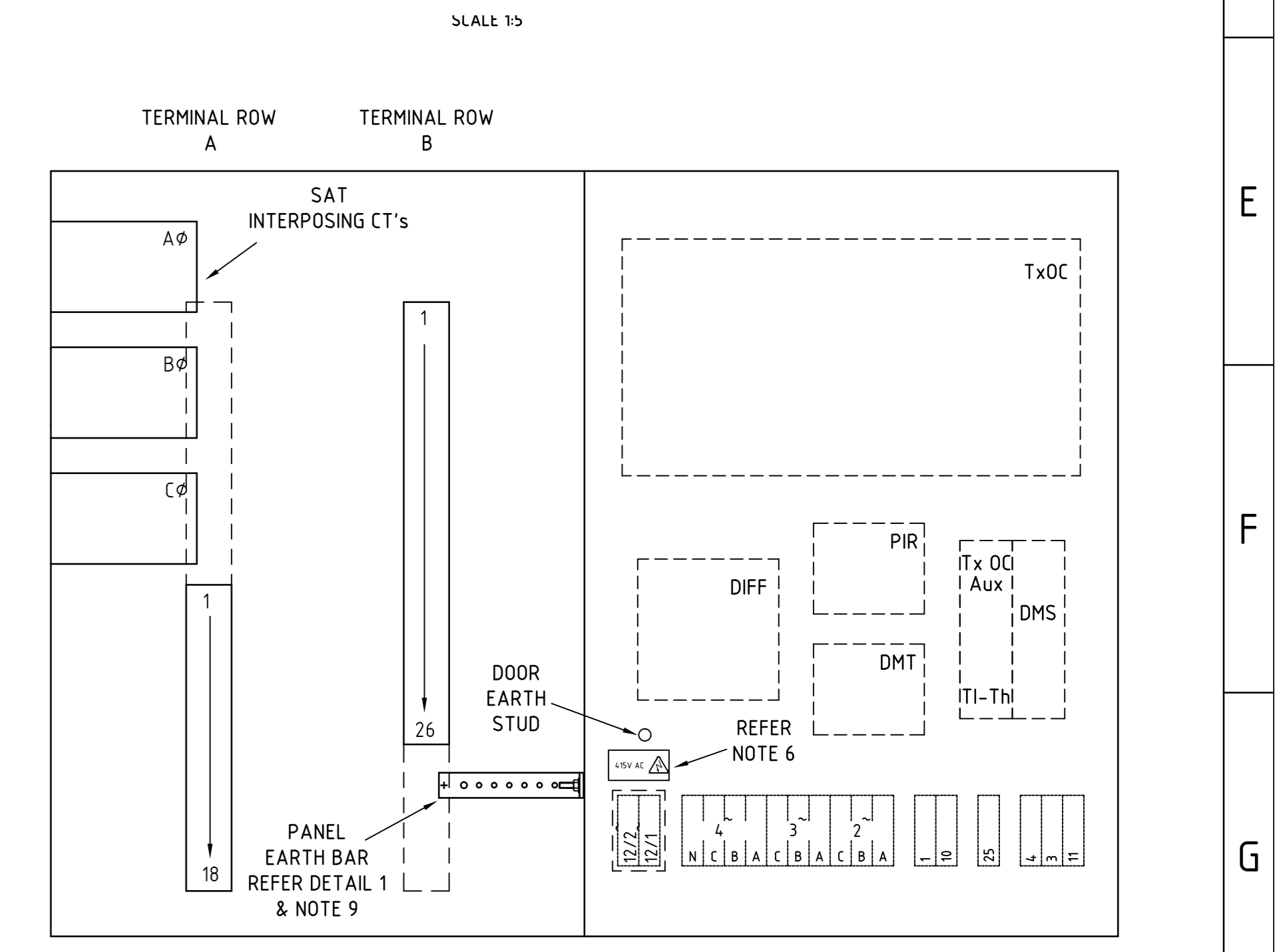


LABEL DETAILS						
LABEL	LABEL SIZE	COLOUR	TEXT LINE	TEXT HEIGHT	ENGRAVING	No OFF
1	C8	GRAVOPLY No.200 WHITE/BLACK	LINE 1	8	TRANSFORMER #	1
2	C2	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	THERMAL BATTERY LINK	1
3	C2	GRAVOPLY No.200 WHITE/BLACK	LINE 1	2.5	TRANSFORMER OVERCURRENT BATTERY LINK	1
4	C2	GRAVOPLY No.200 WHITE/BLACK	LINE 2	2.5	DIFFERENTIAL BATTERY LINK	1
5	C2	TRAFFOLYTE YELLOW/BLACK/YELLOW	LINE 1	2.5	CUSTOMER & SUMMATED TRANSFORMER OVERCURRENT TRIP LINK	1
			LINE 2	2.5		
6	C3	GRAVOPLY No.248 RED/WHITE	LINE 1	4.0	10 1 20V DC BUS MASTER BATTERY LINKS	1
			LINE 2	2.5		
			LINE 3	2.5		
			LINE 4	2.5		
7	C10	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1	4.0	A B C TRANSFORMER OVERCURRENT RELAY TEST LINKS	1
			LINE 2	2.5		
			LINE 3	2.5		
			LINE 4	2.5		
8	C10	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1	4.0	A B C TRANSFORMER OVERCURRENT RELAY TEST LINKS	1
			LINE 2	2.5		
			LINE 3	2.5		
			LINE 4	2.5		
9	C1	GRAVOPLY No.259 PINE GREEN/WHITE	LINE 1	4.0	A B C N DIFFERENTIAL RELAY TEST LINKS	1
			LINE 2	2.5		
			LINE 3	2.5		
10	C2	GRAVOPLY No.235 YELLOW/BLACK	LINE 1	2.5	PIR 415V AC TRIP ISOLATION LINK	1
			LINE 2	2.5		
			LINE 3	2.5		
11	C2	GRAVOPLY No.235 YELLOW/BLACK	LINE 1	2.5	DMT 415V AC TRIP ISOLATION LINK	1
			LINE 2	2.5		
			LINE 3	2.5		



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**
- THIS DRAWING SHOWS THE WALL MOUNTED CITY TRANSFORMER PROTECTION PANEL & WIRING TO BE USED IN CHAMBER TYPE CITY SUBSTATIONS AND IS TO BE READ IN CONJUNCTION WITH NETWORK STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE.
 - THE WALL MOUNTED PANEL IS TO BE CONSTRUCTED IN ACCORDANCE WITH MARK 1 OF DWG A1-28632.
 - 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.
 - THE PIR TRIP LINKS ARE TO BE FITTED WITH CLEAR PLASTIC COVERS ON BOTH THE FRONT AND REAR OF THE PANEL.
 - 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	
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 - ALL PANEL WIRING IS TO BE 7/0.67, 0.6V 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 LINKS (●) INDICATES BOTTOM 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 THE LENGTH OF THE EARTH BAR.
 - EARTH CONNECTIONS DESIGNATED ∇ ARE TO BE CONNECTED INDIVIDUALLY TO THE EARTH BAR.
 - FOR LOOM METHOD OF WIRING REFER TO DRAWING A1-52474.
 - THE COMMON CONNECTIONS BETWEEN POINTS DESIGNATED BY ① ② ③ 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 AT ANY LINK OR RELAY TERMINAL.
 - SUBSTITUTE THE APPROPRIATE TRANSFORMER NUMBER WHERE INDICATED BY #.
 - WHEN A DRY TYPE TRANSFORMER IS USED, THE THERMAL RELAY TRIP INDICATOR (TI-Th) IS TO BE CONNECTED.

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 - MOULDED LINK & LABEL DETAILS	B1-178241
DISTRIBUTION SUBSTATIONS - PROTECTION RELAYS DRILLING DETAILS	A2-191086
WALL MOUNTED REALY PANELS - DETAILS	A1-28632
LOOM METHOD OF PANEL WIRING	A1-52474
UTILUX 3820 RAIL MOUNTED TERMINALS	A3-118547
AUXILIARY CURRENT TRANSFORMER MARK 11	A1-122034

CLD DRAWING
 20111014
REVISIONS
 1. REF F2 WIRES IN & WIRE 1 & 2 TO DC RECTIFIER WIRE FROM 380V AC TO 20V BATTERY
 2. NEW ANSGRID BORDER & LOGO
 30-09-2013
 R.ULLALLA
 APPROVED
 T.AMPARD

NETWORK STANDARD
Ausgrid
 DESIGN AND ENGINEERING BRANCH
 24 CAMPBELL ST SYDNEY NSW 2000

SCALE	AS SHOWN
DESIGNED	P. JARVIS
DRAWN	P. JARVIS
CHECKED	P. EASTON
APPROVED	P. EASTON
DATE	7.12.09
PRJTRK No.	-
PROJECT NUMBER	209/1/55/1

CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD WALL MOUNTED TRANSFORMER PROTECTION PANEL DRILLING, WIRING AND CABLING

DRAWING No **205956** SHEET 1 AMD 2 SIZE A0