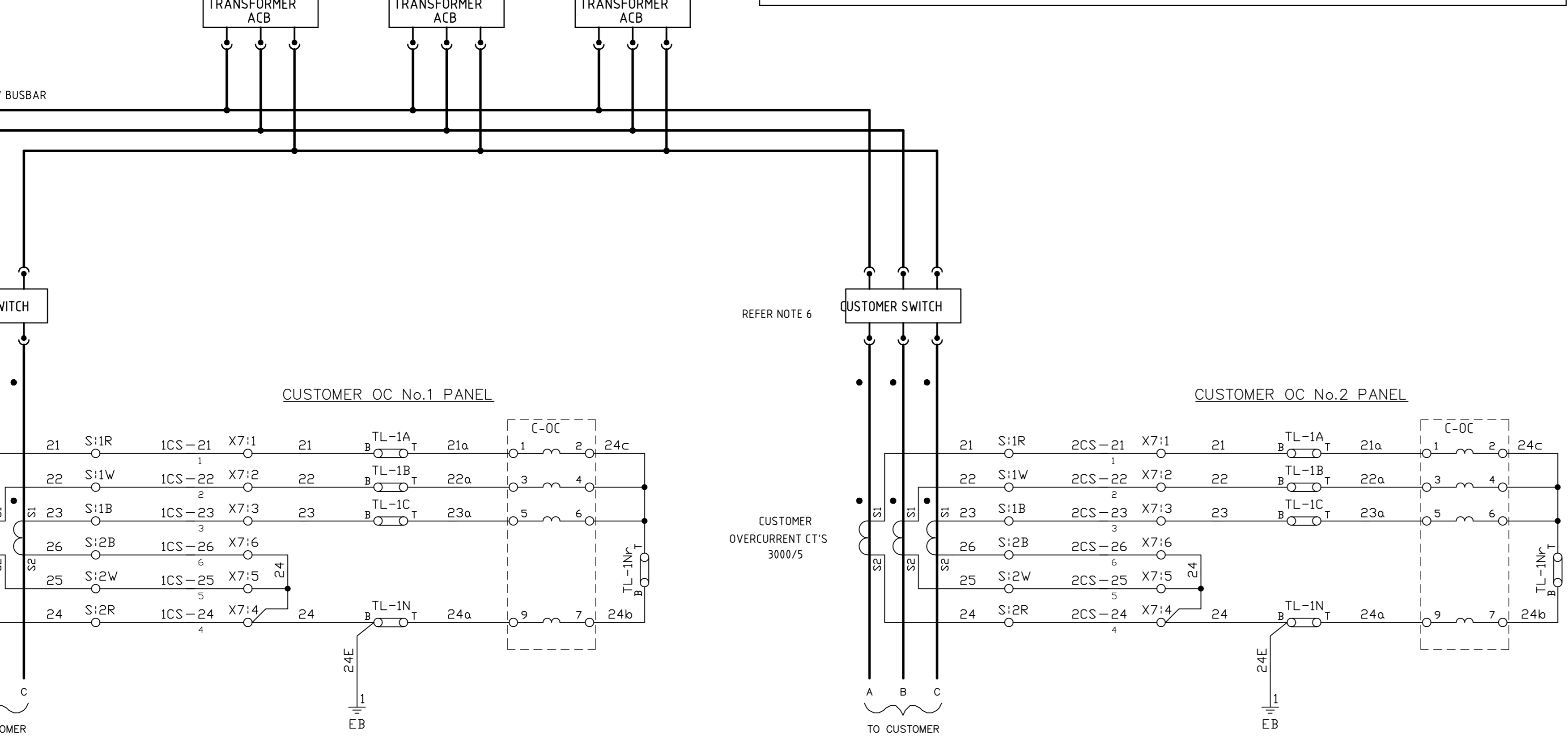
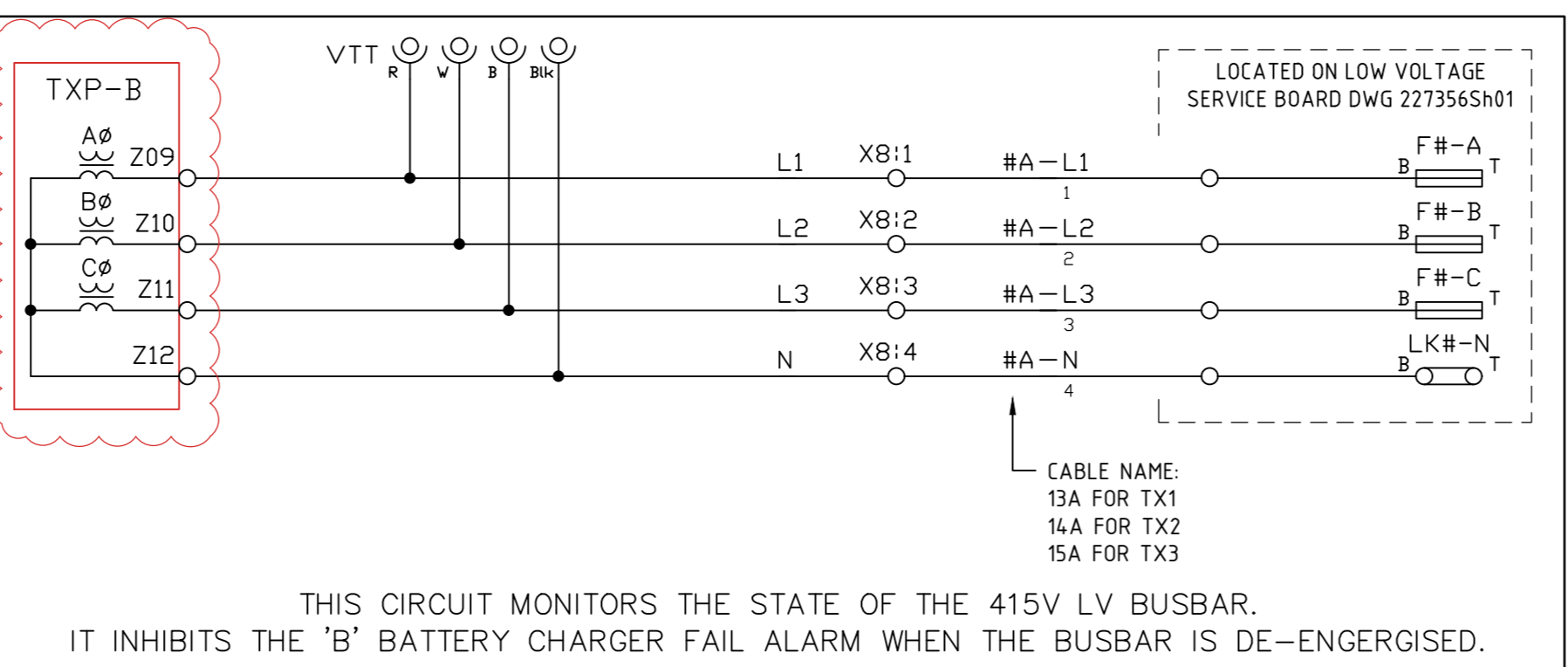
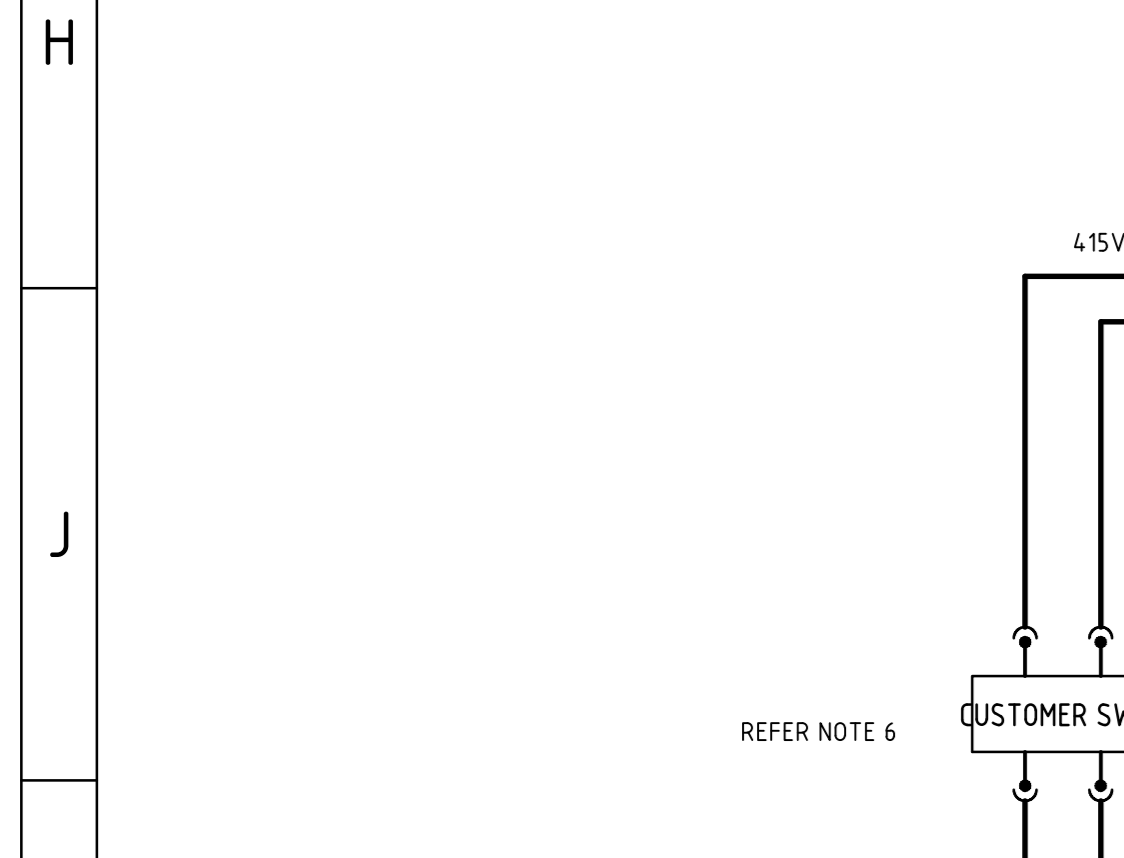
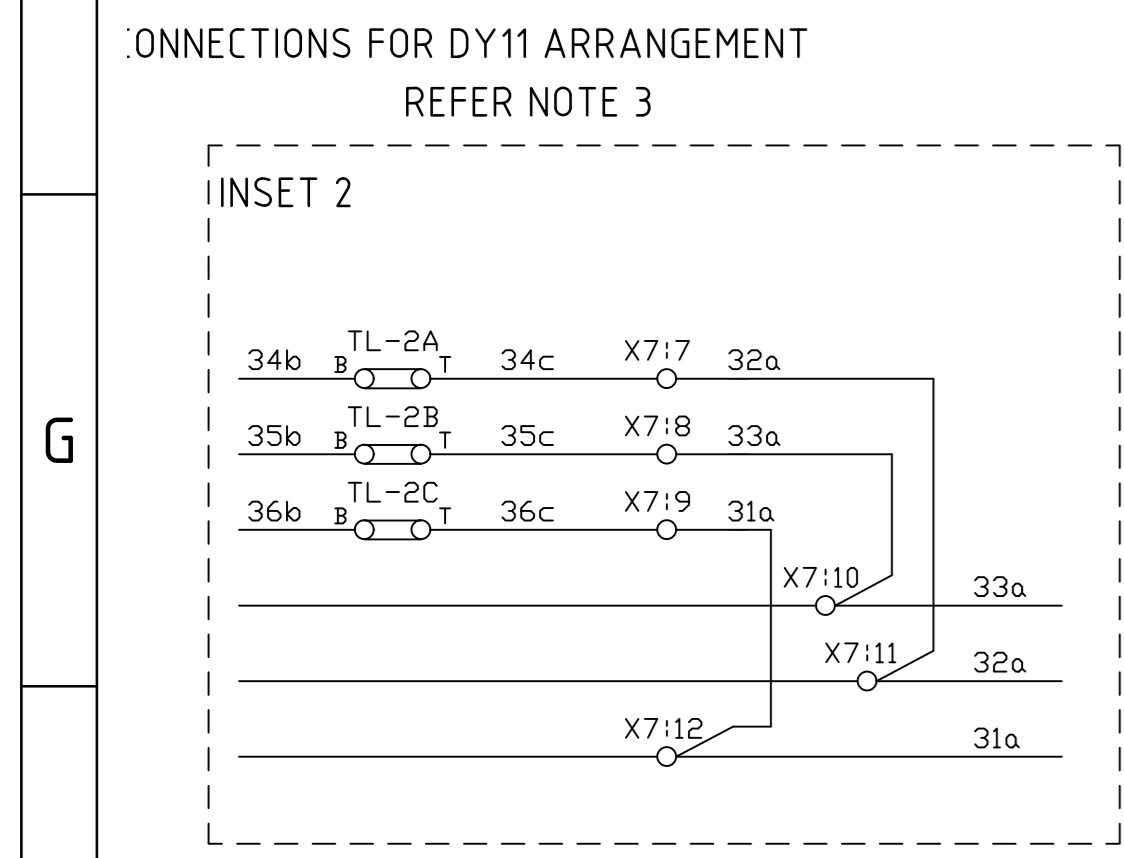


LINE DIAGRAMS
SEE NOTE 1.

NOTES:

- THIS DRAWING SHOWS THE AC PROTECTION SCHEMATIC WHICH ARE TO BE USED IN CONJUNCTION WITH RMICB CHAMBER TYPE SUBSTATIONS AND SHOULD BE READ IN CONJUNCTION WITH NETWORKS STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE. SEE DRAWING 178227 FOR ACCEPTABLE COMBINATIONS OF "E" TYPE LV BOARD ARRANGEMENTS.
- FOR AN UPPER LEVEL SUBSTATION THE RMICB IS LOCATED IN A CONTROL POINT WHICH IS REMOTE FROM THE SUBSTATION. FOR AN UPPER LEVEL SUBSTATION REFER TO THE CABLING DIAGRAM (227355SH01) FOR FURTHER INFORMATION ON CONNECTING THE RMICB TRIP COIL.
- THE AC SCHEMATIC SHOWS THE STANDARD AUSGRID DY1 TRANSFORMER CONNECTED IN A DY1 ARRANGEMENT. FOR A DY1 TRANSFORMER CONNECTED IN A DY11 ARRANGEMENT, USE INSETS 1 & 2.
- THE 'B' END OF A LINK OR FUSE SHOWN THUS (B O D T) INDICATES BOTTOM CONNECTION.
- WHEN A DRY TYPE TRANSFORMER IS USED, THE THERMAL RELAY (TH) AND A TRIP INDICATOR ARE TO BE CONNECTED. THE THERMAL RELAY IS LOCATED & SUPPLIED ON THE TRANSFORMER BY THE TRANSFORMER MANUFACTURER. THE TRIP INDICATOR IS LOCATED ON THE TRANSFORMER PROTECTION PANEL & IS SUPPLIED BY AUSGRID.
- FOR A CUSTOMER CABLE SUPPLY, THE CUSTOMER SWITCH CAN BE AN AIR CIRCUIT BREAKER, A DISCONNECTOR OR A LINK. IN ALL OF THESE INSTALLATIONS, AN OVERCURRENT CT IS INSTALLED AS SHOWN ON THE AC SCHEMATIC IN ALL CASES A CUSTOMER PROTECTION TRIP INITIATION WILL TRIP ALL THE TRANSFORMER HV RMICB'S & LV AIR CIRCUIT BREAKERS.
- THIS AC SCHEMATIC SHOWS TRANSFORMER No.1, CUSTOMER SUPPLY 1, CUSTOMER SUPPLY 2 AND THEIR ASSOCIATED PROTECTION PANELS. TRANSFORMERS No.2 AND 3 ARE IDENTICALLY WIRED AS TRANSFORMER No.1 DIFFERENCES EXIST WITH CABLE NAMING AND WIRE JUMPING. THIS WILL BE INSTALLED ON SITE RELEVANT TO THE ACTUAL SUBSTATION CONFIGURATION. THAT IS, HOW MANY TRANSFORMERS ARE INSTALLED, LOW VOLTAGE BUSBAR CONFIGURATION AND CUSTOMER SUPPLY CONNECTIONS.



LINK No.	LINK FUNCTION
TL-1	CUSTOMER OVERCURRENT & EARTH FAULT No.1 CT TEST LINKS
TL-2	CUSTOMER OVERCURRENT & EARTH FAULT No.2 CT TEST LINKS
TL-3	CUSTOMER OVERCURRENT & EARTH FAULT No.3 CT TEST LINKS

TAGNAME	MFG	CATNO	DESC	REF DWG
C-OC	SCHNEIDER ELECT.	MICOM P115	OVERCURRENT & EARTH FAULT RELAY	225082
Th	-	-	THERMAL RELAY (SEE NOTE 5)	-
DIFF	K3M	-	DIFFERENTIAL FUSE RELAY	113243
EB	-	-	EARTH BAR	-
LV DCK&EF-A	SCHNEIDER ELECT.	MICOM P115	OVERCURRENT & EARTH FAULT RELAY	225082
TXP-B	SCHWEITZER	GL-751	TRANSFORMER PROTECTION RELAY	-
TL-1	EDGADIP	INSULATED TYPE M6	BATTERY TEST LINKS	18811
VTT	-	-	MULTI CONNECT (RS COMPONENTS)	231226
X6, X7	UTLUX	3820	RAIL MOUNTED TERMINAL	198547
X8	UTLUX	H2238	RAIL MOUNTED TERMINAL - ORANGE	-

TITLE	DWG No.
RMICB SUBSTATIONS WITH E TYPE LV BOARD AC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227350SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER DC SCHEMATIC WITH OPTICAL ARC FLASH DETECTION	227350SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT DC SCHEMATIC	227350SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD DC SUPPLY CABLE LOOPING AND SCADA SCHEMATIC	227350SH04
RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227350SH05
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTIN PANEL WITH OPTICAL AFD STYLE 1 LAYOUT AND LABEL DETAILS DIAGRAM	227351SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 1 CABLE CONNECTION DIAGRAM	227351SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD TX WALL MOUNTED PROTIN PANEL WITH OPTICAL AFD STYLE 2 LAYOUT AND LABEL DETAILS DIAGRAM	227352SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 WIRING DIAGRAM	227352SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD TRANSFORMER PROTECTION PANEL STYLE 2 CABLE CONNECTION DIAGRAM	227352SH03
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WALL MOUNTED PROTIN PANEL LAYOUT AND LABEL DETAILS DIAGRAM	227353SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD CUSTOMER OVERCURRENT WIRING DIAGRAM	227353SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION INDICATION PANEL SCHEMATIC DRILLING AND WIRING DIAGRAM	227354SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227355SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227355SH02
RMICB SUBSTATIONS WITH E TYPE LV BOARD SUBURBAN TYPE SUBSTATION WITH 1500kVA TRANSFORMERS SERVICE BOARD GEN. ARRANGEMENT AND WIRING	227356SH01
E TYPE LV BOARD MERLIN GERIN MASTERPAC TP AIR CIRCUIT BREAKERS EXTERNAL CONNECTIONS FOR AFD DIST. SUBSTATIONS	227357SH01
RMICB SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION SCADA PANEL WIRING AND CABLING DETAILS	227358SH01
E TYPE LV BOARD ACCEPTABLE COMBINATIONS	178227
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190

LEGEND FOR NEW SOCKETS STYLE
 APPROVED: L.MARTINUZZI
 CHECKED: B.HAINES
 DATE: 31/05/2012
 PROJECT NUMBER: SM-06717
 DRAWING No: 227350
 SHEET 1
 SIZE A0

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 24 Campbell Street
 SYDNEY NSW 2000
 P. 9272 3805

SCALE: NTS
 DESIGNED: -
 DRAWN: L.MARTINUZZI
 CHECKED: B.HAINES
 APPROVED: A.TURNER
 DATE: 31/05/2012
 TRIM REF: -

RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION

ISSUED FOR CONSTRUCTION
 PROJECT NUMBER: SM-06717
 DRAWING No: 227350
 SHEET 1
 AMD 3
 SIZE A0
 C&P - DISTRIBUTION SUBS