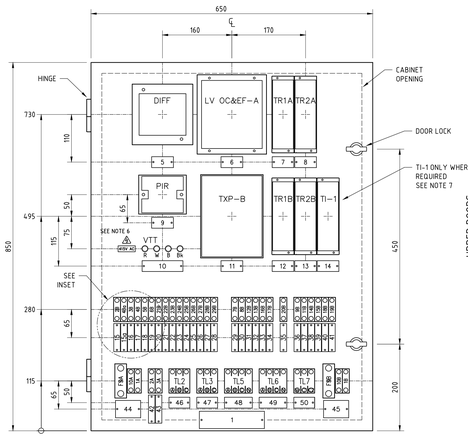
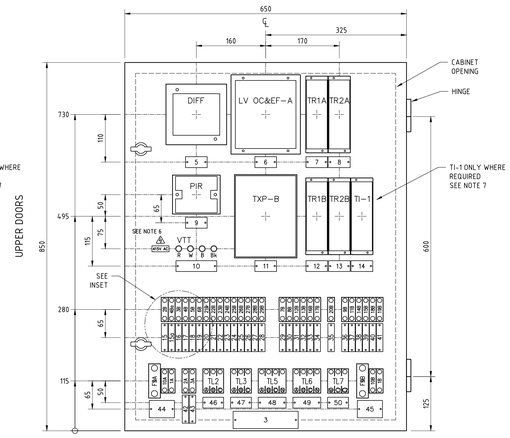
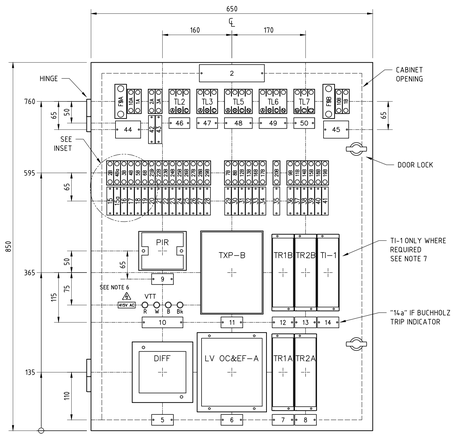


TRANSFORMER / TRANSFORMER

(CABINET 1)

SCALE 1:5

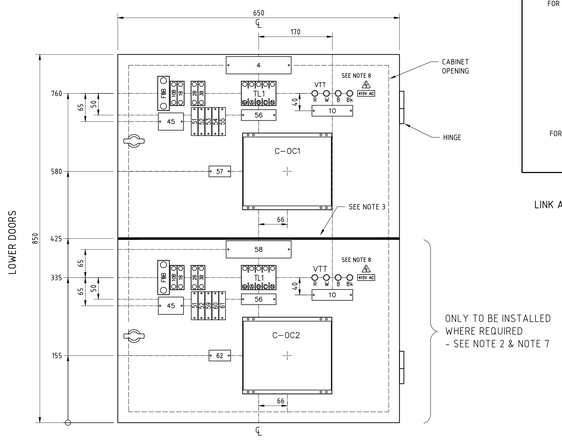




TRANSFORMER / TRANSFORMER

(CABINET 1)

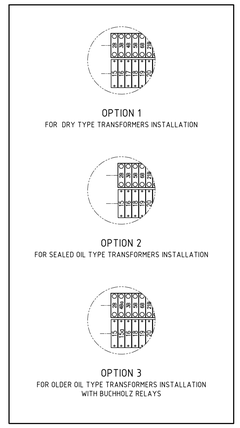
SCALE 1:5



TRANSFORMER / CUSTOMER O/C No. 1 & No.2

(CABINET 2)

SCALE 1:5

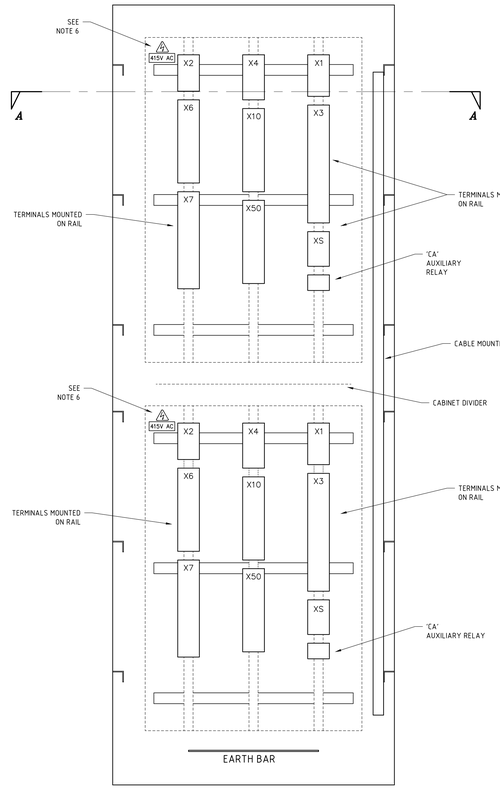


INSET

LINK ARRANGEMENTS TO BE DETERMINED BY REQUIREMENTS

SEE NOTE 1

SCALE 1:5

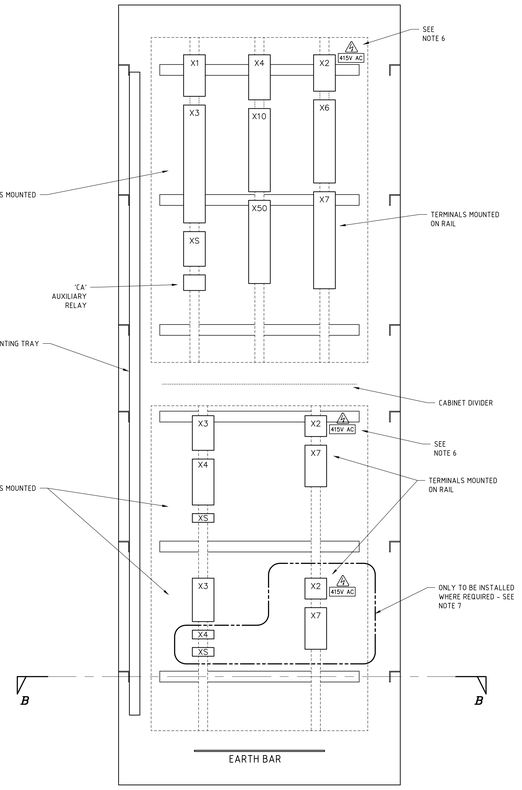


TERMINAL LOCATION

CABINET 1

INSIDE VIEWED FROM FRONT (BEHIND DOORS)

SCALE 1:5

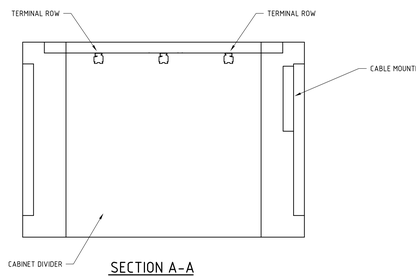


TERMINAL LOCATION

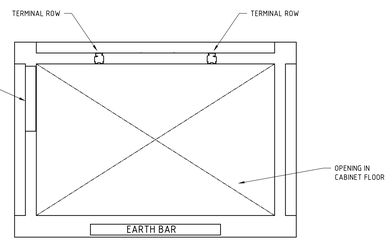
CABINET 2

INSIDE VIEWED FROM FRONT (BEHIND DOORS)

SCALE 1:5



SECTION A-A



SECTION B-B

TITLE	DWG No.
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION AC SCHEMATIC	227380 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, & OPTICAL ARC FLASH DETECTION TRANSFORMER DC SCHEMATIC	227380 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CUSTOMER OVERCURRENT DC SCHEMATIC	227380 Sh3
CITY DISTRIBUTION SUB WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION, DLAC PANEL SCHEMATIC, GENERAL DC SUPPLIES INTER-PANEL WIRING, FIBRE COMMS & CABLING DIAGRAM	227380 Sh4
CITY DISTRIBUTION SUBSTATIONS WITH OPTICAL ARC FLASH DETECTION (E TYPE LV) TRANSFORMERS AND CUSTOMER OVERCURRENT FREE STANDING PANELS LAYOUT DETAILS	227381 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD & OAFD, TRANSFORMERS AND CUSTOMER OVERCURRENT PROTECTION FREE STANDING PANELS LABEL DETAILS	227382 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DRY TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OIL TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL WIRING DIAGRAM	227383 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, DRY TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OIL TYPE TX, & OAFD, TRANSFORMER PROTECTION PANEL CABLE CONNECTION DIAGRAM	227384 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CUSTOMER OC No.1 (& No.2) PROTECTION PANEL WIRING AND CABLE CONNECTIONS	227385 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLING DIAGRAM	227386 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OPTICAL ARC FLASH DETECTION CABLE SCHEDULE	227386 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD 1500kVA TX'S AND VENTILATION FAN AC SERVICE BOARD LAYOUT, WIRING, & CONNECTIONS	227387 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD DISTRIBUTION LOCAL AUTOMATION CONTROL PANEL LAYOUT AND LABEL DETAILS	227388 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER OC No1 & No2 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING DIAGRAM	227389 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD, OAFD, & CUSTOMER OC No1 PROTECTION, DISTRIBUTION AUTOMATION CONTROL PANEL WIRING & CABLING DIAGRAM	227389 Sh2
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD TRANSFORMER ACB INTERNAL WIRING AND ACB PANEL CONTROL WIRING SCHEMATIC	227390 Sh1
CITY DISTRIBUTION SUBSTATIONS WITH E TYPE LV BOARD AND OAFD CUSTOMER ACB INTERNAL WIRING AND ACB PANEL CONTROL WIRING SCHEMATIC	227390 Sh2
RMICB SUBSTATIONS WITH E TYPE LV BOARD WITH OPTICAL ARC FLASH DETECTION FIBRE LOOPING AND GENERAL MOUNTING DETAILS	227350 Sh5
DISTRIBUTION SUBSTATIONS SCHNEIDER E TYPE LV BOARD ACB INCOMING PANEL MODIFICATIONS TO MANUFACTURERS WIRING DIAGRAM	228882 Sh2
E TYPE LV BOARD MERLIN GERIN MASTERPAC TP AIR CIRCUIT BREAKERS EXTERNAL CONNECTIONS FOR AFD DIST. SUBSTATIONS	227357 Sh1
E TYPE LV BOARD ACCEPTABLE COMBINATIONS	178227
EPOXY RESIN ENCASED PROTECTION CURRENT TRANSFORMER OUTLINE AND DETAILS	125190

REFERENCE DRAWINGS

LEGEND

	TAGNAME	MFG	CATNO	DESC	REF_DWG
	BL, LK, TL	EUGAQUIP	MOULDED TYPE M5	BATTERY/TEST LINK	507111
	CA	IDEC	RH2B-ULD 48V DC	AUXILIARY RELAY WITH BASE SH2B-05C	169175
SEE NOTE 7	C-OC1 (& C-OC2 IF REQUIRED)	SCHNEIDER ELECT.	MICOM P142	OVERCURRENT & EARTH FAULT RELAY	224809
	DIFF	-	K3M	3 ELEMENT FUSE RELAY	113243
	EB	-	EARTH BAR	PANEL EARTH BAR	-
	FSA, FSB	ALSTOM	RS20P Black	FUSE - 2 STUD BACK CONNECTED	-
	LV OC&EF-A	SCHNEIDER ELECT.	MICOM P115	OVERCURRENT & EARTH FAULT RELAY	225082
	PIR	RMS	PIR	PILOT INTERLOCK RELAY	53829
	TR1A, TR2A	RMS	TR12-BD-22	LATCHING MULTITRIP RELAY 32V DC	223206 Sh1 & 2
SEE NOTE 7	TR1B, TR2B	RMS	TR12-CD-22	LATCHING MULTITRIP RELAY 48V DC	223206 Sh1 & 2
	TXP-B	SCHWEITZER	SEL-751	TRANSFORMER PROTECTION RELAY	-
	TI-1 (ONLY IF REQUIRED)	RMS	3A32K37	TRIP INDICATOR TI-1 (0.2 ohm)	123399
	VTT	MULTI CONNECT (RS COMPONENTS)	SLB4-G	INSULATED TEST PANEL SOCKETS 1 x RED 23.3020.22 (404-244) 1 x WHITE 23.3020.29 (404-250) 1 x BLUE 23.3020.23 (404-216) 1 x BLACK 23.3020.21 (404-200)	231226
	X1, X3, X6, X7, X10, X50	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
	X2	UTILUX	H2238	RAIL MOUNTED TERMINAL - ORANGE	-
	X4	WEIDMULLER	SAK 2.5	RAIL MOUNTED TERMINAL CAT No. 27966	-
	XS	WEIDMULLER	ASK1	RAIL MOUNTED FUSE CAT No. 37676	-
	XS	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.41226	-

NOTES:

1. THIS DRAWING SHOWS FREE STANDING TRANSFORMER & CUSTOMER OVERCURRENT PROTECTION PANELS LAYOUTS FOR CITY DISTRIBUTION SUBSTATIONS WITH OPTICAL ARC FLASH DETECTION & CUSTOMER CO-GENERATION INSTALLED.
2. CUSTOMER OVERCURRENT PROTECTION PANEL MAY BE EITHER SINGLE OR DUAL TYPE AS SHOWN. IT WILL BE DETERMINED BY THE SUBSTATION DESIGN INFORMATION PACKAGE.
3. FOR DUAL CUSTOMER OVERCURRENT PROTECTION PANELS, WHERE SHOWN A 5mm BLACK LINE SHALL BE PAINTED ON THE FRONT AND REAR OF THE PANEL DOOR. IT SHOWS THE SEGREGATION BETWEEN CUSTOMER OVERCURRENT No.1 PANEL (TOP) AND CUSTOMER OVERCURRENT No.2 PANEL (BOTTOM).
4. ALL DIMENSIONS ARE IN MILLIMETRES.
5. LINKS SHOULD BE MOUNTED SO THAT THE MOVABLE LINK FALLS OPEN WHEN RELEASED.
6. TERMINALS AND RELAY CONNECTIONS ARE TO BE FITTED WITH CAUTION LABELS TO WARN OF THE 415V AC HAZARD. ANY EXPOSED TERMINALS ARE TO BE APPROPRIATELY COVERED. SELF ADHESIVE CAUTION LABELS ARE TO BE FIXED TO THE REAR OF THE PANEL DOOR. THESE LABELS ARE TO READ:

   415V AC

7. ANY ASPECTS OF THE PANEL LAYOUTS THAT ARE NOT REQUIRED ARE TO BE OMITTED. REFER TO DESIGN INFORMATION PACKAGE FOR DETAILS:
   - CUSTOMER OVERCURRENT No2 LAYOUT ARRANGEMENT IS TO BE INSTALLED ONLY WHEN INCLUDED IN THE DESIGN PACKAGE.
   - LINK 4B & TI-1 RELAY ARE REQUIRED WHERE DRY TYPE TRANSFORMERS ARE INSTALLED.
   - LINK 4Ba & TI-1 RELAY ARE REQUIRED WHERE OIL TYPE TRANSFORMERS WITH BUCHHOLZ PROTECTION ARE INSTALLED.

   UNREQUIRED ITEMS ARE TO BE EITHER NOT INCLUDED IN THE PANEL DRILLING PROCESS, OR TO BE COVERED BY MEANS OF PLUGS FOR DRILLED HOLES OR BY A BLANKING COVER PLATE.
8. FOR PANEL SPECIFICATIONS SEE DRAWING 205952 Sh2.

CAD DRAWING
DO NOT MANUALLY UPDATE

AMENDMENTS

1. BORDER & TITLE BLOCK UPDATED
2. RE-LABELED SEGRELLA LOADS
3. ADDED LOW & HIGH TYPES AS SHOWN 13-06-2013
4. MARTINUZZI / KAIROUZ 24-02-2015
CHECKED L.MARTINUZZI
APPROVED M.BENNETT

CAM
COMPUTER AIDED MANUFACTURE

Ausgrid
24 Campbell Street
SYDNEY NSW 2000
P: 9272 3805

ISSUED FOR
CONSTRUCTION

SCALE	AS SHOWN
DESIGNED	-
DRAWN	L.MARTINUZZI / E.KAIROUZ
CHECKED	L.MARTINUZZI
APPROVED	M.BENNETT
DATE	24/02/2015
TRIM REF	-
PROJECT NUMBER	OPEX-06923

CITY DISTRIBUTION SUBSTATIONS WITH OPTICAL ARC FLASH DETECTION (E TYPE LV) TRANSFORMERS AND CUSTOMER OVERCURRENT FREE STANDING PANELS LAYOUT DETAILS

DRAWING No 227381 | SHEET 1 | AMD 1 | SIZE A0

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