

NOTES:

1. THIS DRAWING SHOWS THE DC SUPPLY AND SCADA CABLING WHICH IS TO BE USED IN CONJUNCTION WITH RMICB CHAMBER TYPE SUBSTATIONS. IT SHOULD BE READ IN CONJUNCTION WITH NETWORK STANDARDS AND THE SUBSTATION DESIGN INFORMATION PACKAGE.
2. THE CABLING ON THIS DRAWING AND CABLE SCHEDULE (SEE DWGS 227355sh01 & 227355sh02) IS FOR A 3 TRANSFORMER SUBSTATION WITH 2 CUSTOMER SWITCH PANELS. SEE DRAWING 178227 FOR ACCEPTABLE SUBSTATION CONFIGURATIONS. THE CABLE SCHEDULE IS AMENDED FOR THESE CONFIGURATIONS. FOR VARIATIONS OF SUBSTATION CONFIGURATION, DELETE ANY EQUIPMENT NOT REQUIRED.
3. A SEPARATE PROTECTION PANEL FOR EACH CUSTOMER SUPPLY IS NORMALLY INSTALLED. THE DUAL VERSION OF THE CUSTOMER SUPPLY PROTECTION PANEL MAY ONLY BE USED WHEN THERE IS INSUFFICIENT WALL SPACE IN THE SUBSTATION TO ACCOMMODATE SEPARATE PANELS. IF A COMBINED PANEL IS USED, THE TOP HALF OF THE PANEL WILL BE CUSTOMER OVERCURRENT No.1 PROTECTION (PC1) AND THE BOTTOM HALF OF THE PANEL WILL BE CUSTOMER OVERCURRENT No.2 PROTECTION (PC2).
4. CABLE NAMING TO FOLLOW CABLE SCHEDULE.
5. SCADA PANEL (ZM) REQUIRES SOME EXTRA TERMINALS AND INTERCONNECTION WIRING/CABLING TO MARSHAL SIGNALS BETWEEN VARIOUS PANELS. SCADA CABINET POWER SUPPLY, CONTROLS OR TERMINATIONS ARE NOT SHOWN. THIS WILL BE DETERMINED BY SCADA TYPE INSTALLED IN THE DISTRIBUTION SUBSTATION, SEE THE RELEVANT MANUFACTURER'S DRAWINGS FOR DETAILS.
6. IDEAL CONFIGURATION SHOWN. RMIS MOUNTED LEFT TO RIGHT AND INCOMING FEEDER TERMINATED TO THE LEFT HAND SWITCH OF THE FIRST RMI. SWITCH 1 IS THE LEFT HAND SWITCH AND SWITCH 2 IS THE RIGHT HAND SWITCH OF THE ASSOCIATED RMI. IF IT OCCURS THAT THE INCOMING FEEDER IS TERMINATED TO THE RIGHT HAND SWITCH (SWITCH 2) OF IT'S ASSOCIATED RMI, THEN THE TERMINAL NUMBERING FOR IT'S PALLET SWITCHES WILL ALTER ACCORDINGLY.
7. 'B' BATTERY TEST POINT BOX (BTP) ONLY REQUIRED WHERE THE 'A' BATTERY VOLTMETER/TEST POINT OR THE ARC FLASH DETECTION INDICATION PANEL HAVE BEEN MOUNTED EXTERNALLY TO THE SUBSTATION CHAMBER. 'B' BATTERY TERMINATION BOX (BTB) ADDED TO ENABLE SIMPLIFIED BATTERY REPLACEMENT. 'BTB' ENCLOSURE TO BE PVC, IP65 RATED WITH MINIMUM DIMENSIONS OF 180mm(L)x175mm(W)x75mm(D) WITH G TYPE TERMINAL RAIL AND UTILUX 3820 TERMINALS.

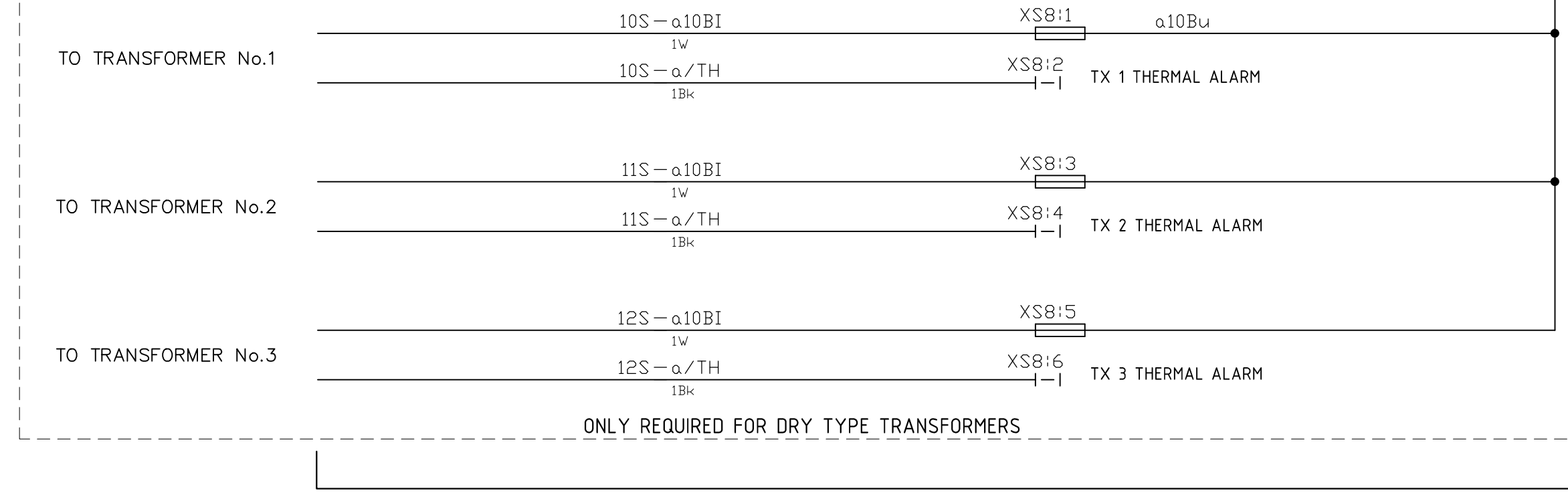
TAGNAME	MFG	CATNO	DESC	REF_DWG
X1	UTILUX	3820	RAIL MOUNTED TERMINAL	118547
X2	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.4/1226	-
XS1 - 8	WEIDMULLER	ASK1	RAIL MOUNTED FUSE CAT No. 37676	-
XS1 - 8	WEIDMULLER	SAKR	RAIL MOUNTED ISOLATING TERM CAT No.4/1226	-

LEGEND

DO NOT MANUALLY AMEND
 A. AMENDMENTS
 1. REF C3 TO C5
 2. REF C3 TO C5
 3. REF C3 TO C5
 BATTERY CONNECTION
 BATTERY TEST POINT BOX AND 'B' BATTERY TERMINATION BOX
 REF: J1
 ADDED NOTE 7.
 BATTERY CHARGER FAIL CONTACT
 CHANGED
 REFERENCES:
 REF: 011
 ADDED 3G MODERN 48V DC SUPPLY TO SCADA PANEL WINNIE/705/203
 B/HAINES
 CHECKED: B/HAINES
 APPROVED: A.TURNER

PANEL ABBREVIATION TABLE

A	30V DC 'A' BATTERY
AFI	ARC FLASH DETECTION INDICATION PANEL
B	48V-30V TAPPED DC 'B' BATTERY
BCA	BATTERY CHARGER A
BCB	BATTERY CHARGER B
BTB	'B' BATTERY TERMINATION BOX (LOCATED NEAR 'B' BATTERY)
BTP	'B' BATTERY TEST POINT (LOCATED NEAR 'B' BATTERY)
PC1	CUSTOMER OVERCURRENT No.1 PROTECTION PANEL
PC2	CUSTOMER OVERCURRENT No.2 PROTECTION PANEL
P1	TRANSFORMER No.1 PROTECTION PANEL
P2	TRANSFORMER No.2 PROTECTION PANEL
P3	TRANSFORMER No.3 PROTECTION PANEL
SB	475V LV SERVICE BOARD
VTP	VOLTMETER / TEST POINT FOR 30V DC 'A' BATTERY
ZM	SCADA PANEL



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SCALE	DESIGNED	AS SHOWN
DRAWN	L.MARTINUZZI	
CHECKED	B.HAINES	
APPROVED	A.TURNER	
DATE	13/06/2012	
PROJECT No.		
PROJECT NUMBER	SM 6717-1-2	

DRAWING No **227350** SHEET 4 AMD 1 SIZE B1