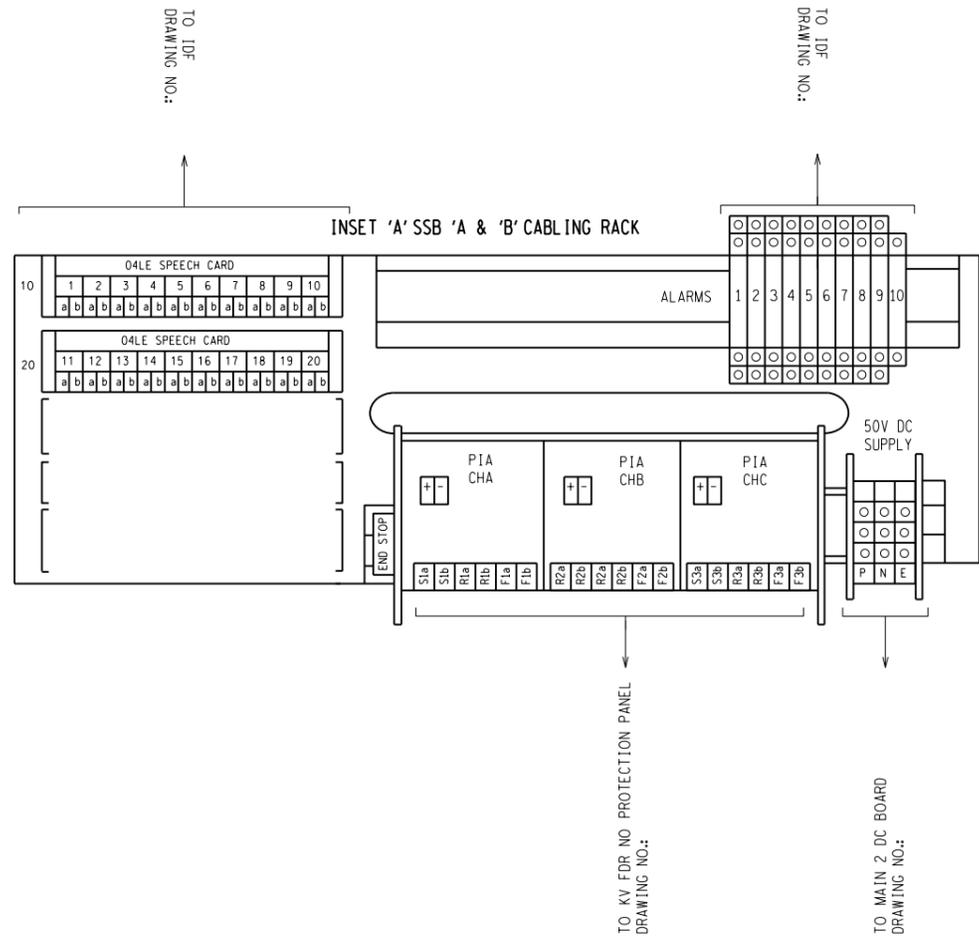
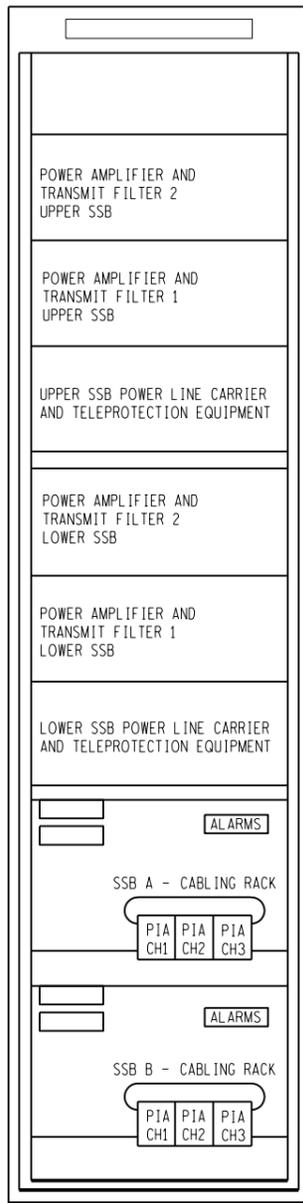


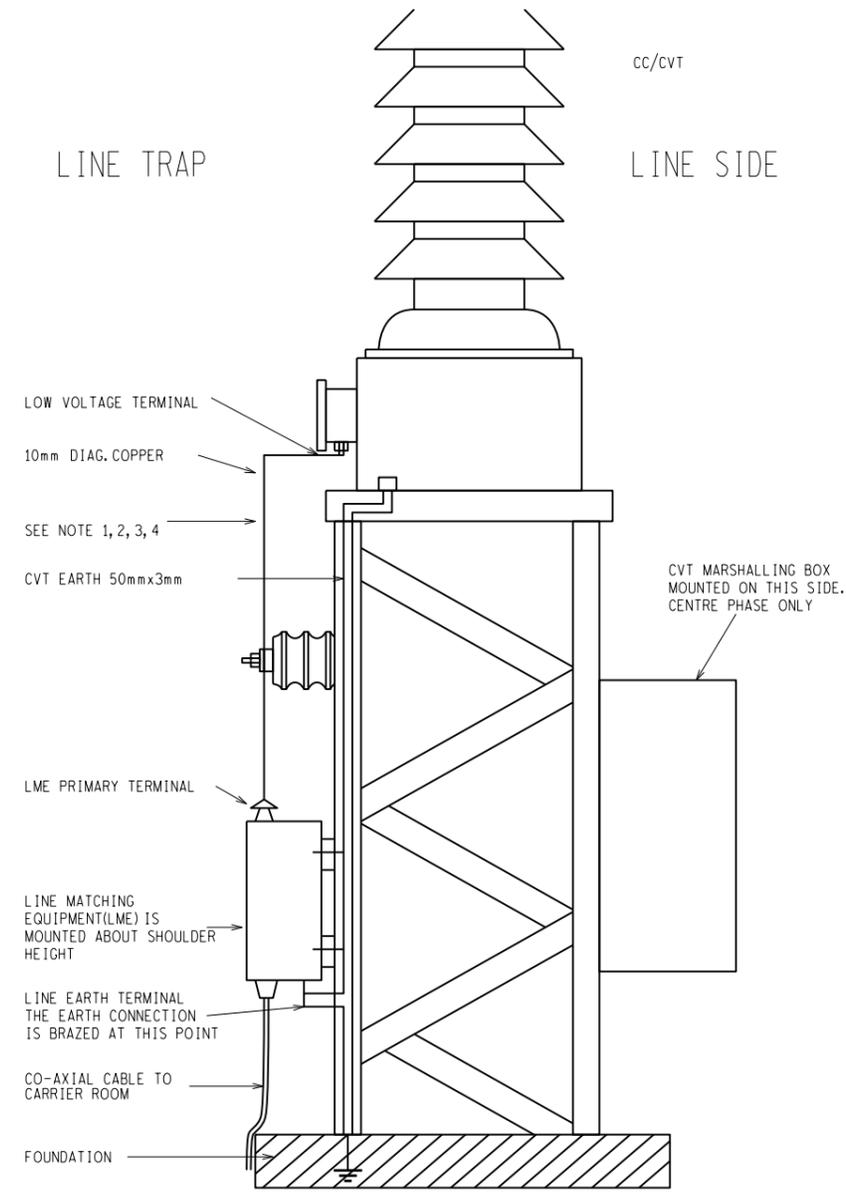
TYPICAL CARRIER PANEL LAYOUT



NOTE:
1. PLC CABINET MUST BE INSTALLED AS PER STANDARD FOR INSTALLATION OF A TELECOMMUNICATION EQUIPMENT CABINET

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE
PROJECT APPROVED	DESIGN APPROVED				
	T. GOSA1				
DATE	DATE				
	11/09/2017				
PROJECT CHECKED	DESIGN CHECKED				
	M. TSHIKOSI				
DATE	DATE				
	11/09/2017				
PROJECT DRAWN BY	DESIGN DRAWN BY				
	R. VILJOEN				
DATE	DATE				
	18/07/2017				
SCALE					
				SHEET NUMBER	REVISION
				1	0

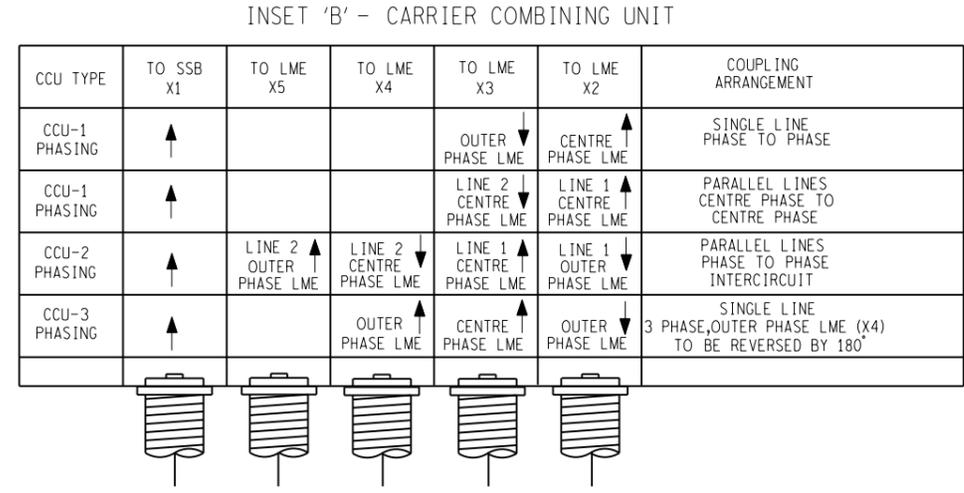
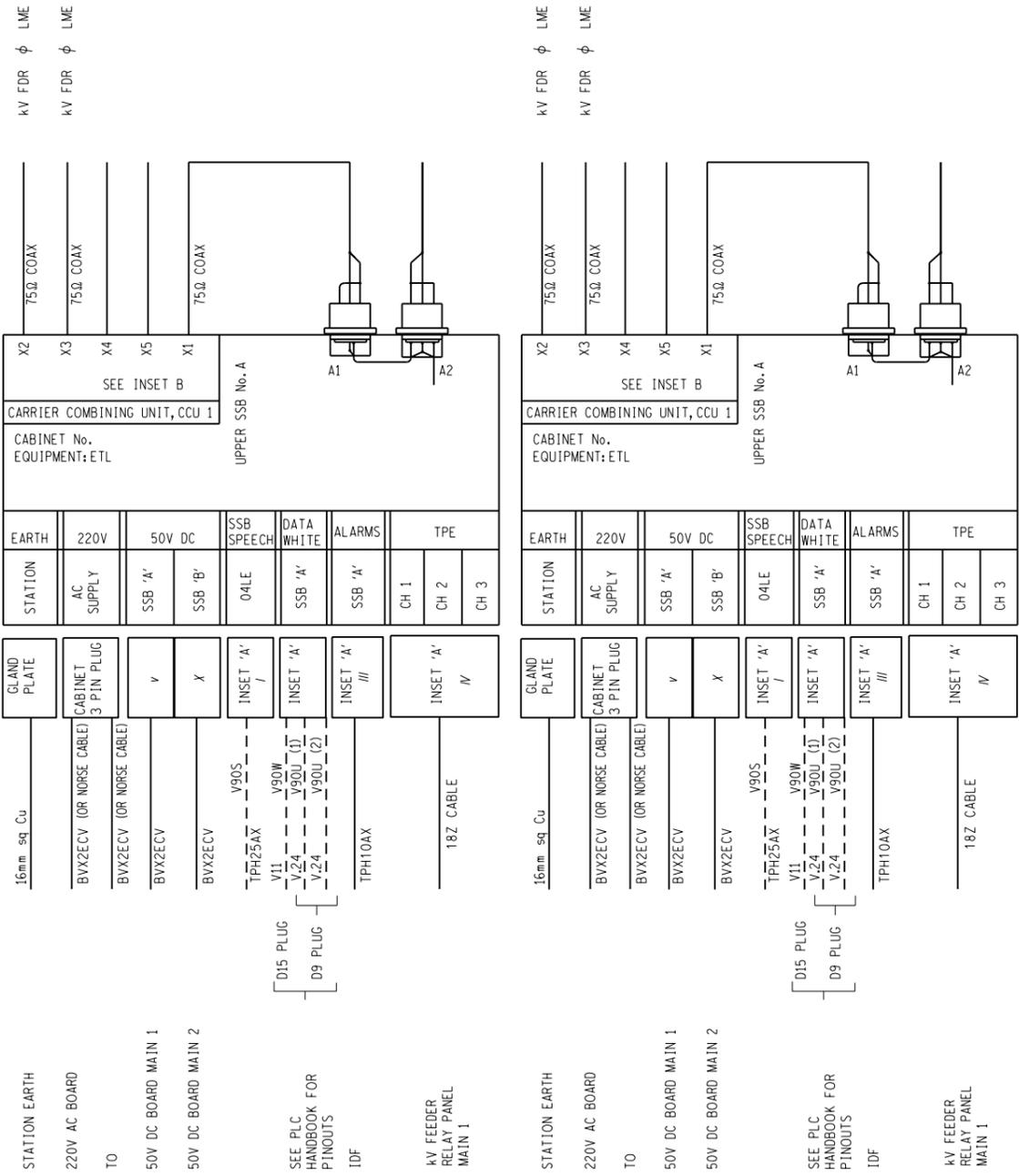
SEPARATELY MOUNTED LINE TRAP WITH CVT/CC



FEEDER NAME:
PHASE:
LME TYPE:

- NOTE:
1. A 10mm COPPER ROD BETWEEN THE HF TERMINAL OF THE CC/VT AND THE LME PRIMARY TERMINAL MUST BE INSTALLED
 2. BREATHER HOLES OF THE LME MUST NOT BE USED FOR THE COAXIAL CABLE GLANDS
 3. THE 10mm COPPER ROD MUST BE BRAZED NOT CRIMPED
 4. IF THE DISTANCE BETWEEN THE LOW VOLTAGE TERMINAL OF THE CC/CVT IS GREATER THAN 1500mm A PIN INSULATOR IS REQUIRED
 5. THE PERSON PERFORMING THIS WORK MUST ENSURE THAT THEY COMPLETED THE ORHVS (OPERATING REGULATION FOR HIGH VOLTAGE SYSTEMS) COURSE

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PROJECT APPROVED	DESIGN APPROVED	Eskom		Eskom Holdings SOC Ltd Reg No 2002/015527/30	
DATE	DATE 11/09/2017				
PROJECT CHECKED	DESIGN CHECKED				
DATE	DATE 11/09/2017				
PROJECT DRAWN BY	DESIGN DRAWN BY				
DATE	DATE 18/07/2017				
SCALE					4 0



TELEPROTECTION EQUIPMENT	CHANNEL A DIRECTIONAL EARTH FAULT	PROTECTION SIGNAL	POLARITY	TDE TERMINAL	Z CABLE COLOURS
TELEPROTECTION EQUIPMENT	CHANNEL A DIRECTIONAL EARTH FAULT	SEND (TX)	+	S1a	RED (R)
			-	S1b	BLUE (Be)
		REVEIVE (RX)	+	R1a	BROWN (Bn)
			-	R1b	LIGHT GREEN (L Gn)
TELEPROTECTION EQUIPMENT	CHANNEL B PERMISSIVE	ALARM (AL)	+	F1a	YELLOW/RED (Y/R)
			-	F1b	WHITE/RED (W/R)
		PROTECTION SIGNAL		TPE TERMINAL	Z CABLE COLOURS
		SEND (TX)	+	S2a	GREY (GY)
TELEPROTECTION EQUIPMENT	CHANNEL C DIRECT TRANSFER TRIP		-	S2b	VIOLET (V)
		REVEIVE (RX)	+	R2a	ORANGE (O)
			-	R2b	PINK (PK)
		ALARM (AL)	+	F2a	RED/BLUE (R/Be)
TELEPROTECTION EQUIPMENT	CHANNEL C DIRECT TRANSFER TRIP		-	F2b	GREEN/RED (Gn/R)
		PROTECTION SIGNAL		TPE TERMINAL	Z CABLE COLOURS
		SEND (TX)	+	S3a	GREEN (Gn)
			-	S3b	BLACK (Bk)
TELEPROTECTION EQUIPMENT	CHANNEL C DIRECT TRANSFER TRIP	REVEIVE (RX)	+	R3a	WHITE (W)
			-	R3b	YELLOW (Y)
		ALARM (AL)	+	F3a	RED/BLACK (R/Bk)
			-	F3b	RED/BROWN (R/Bn)

INSET 'C'
COLOUR CODING OF THE TVH 25 AX CABLE
SHOWING THE FUNCTIONS ON THE CABLE PAIRS

PAIR No	SUB UNIT	FUNCTION	PAIR No	SUB UNIT	FUNCTION
1	a BLUE	AF1-IN	11	a BLUE	SPARE
	b WHITE			b WHITE	
2	a ORANGE	AF1-OUT	12	a ORANGE	SPARE
	b WHITE			b WHITE	
3	a GREEN	E-WIRE	13	a GREEN	AF2-IN
	b WHITE			b WHITE	
4	a BROWN	M-WIRE	14	a BROWN	AF2-OUT
	b WHITE			b WHITE	
5	a GREY	LOCAL TRANSIT	15	a GREY	AF3-IN
	b WHITE			b WHITE	
6	a BLUE	PAX BLOCKING	16	a BLUE	AF3-OUT
	b RED			b RED	
7	a ORANGE	SPARE	17	a ORANGE	AF4-IN
	b RED			b RED	
8	a GREEN	PAX 2 WIRE	18	a GREEN	AF4-OUT
	b RED			b RED	
9	a BROWN	SPARE	19	a BROWN	EXT-BOOST
	b RED			b RED	
10	a GREY	SUBSCRIBER	20	a GREY	RTC-SYNC
	b RED			b RED	

INSET 'D'
COLOUR CODING OF THE TVH 10 AX CABLE
SHOWING THE FUNCTIONS ON THE CABLE PAIRS

PAIR No	SUB UNIT	ALARM
1	a BLUE NC	HARDWARE ALARM
	b WHITE C	
2	a ORANGE NO	LINK ALARM
	b WHITE NC	
3	a GREEN C	CABINET ALARM
	b WHITE NO	
4	a BROWN NC	EARTH SPARE
	b WHITE C	
5	a GREY NO	SPARE
	b WHITE	
6	a BLUE	SPARE
	b RED	
7	a ORANGE	SPARE
	b RED	
8	a GREEN	SPARE
	b RED	
9	a BROWN	SPARE
	b RED	
10	a GREY	SPARE
	b RED	

- NOTE:
- THE PLC CABINET MUST BE INSTALLED AS PER STANDARD FOR INSTALLATION OF A TELECOMMUNICATION EQUIPMENT CABINET
 - THE CABINET MUST BE INSTALLED IN THE POSITION AS SHOWN ON THE CONTROL/CARRIER ROOM LAYOUT
 - ALL NEW 2/18Z TELEPROTECTION CABLES MUST BE GLANDED AND LUGGED WITH SUFFICIENT SLACK
 - ARMOUR GLANDS MUST BE USED FOR ALL ARMoured CABLES AND COMPRESSION GLANDS FOR ALL UNARMoured CABLES
 - ALL CABLES (NEW AND EXISTING) MUST BE NUMBERED ON BOTH ENDS
 - ALL CONDUCTORS TO BE TERMINATED, MUST BE FITTED WITH THE APPROPRIATED 'SPADE LUGS'
 - ALL UNTERMINATED CABLES MUST BE SEALED TO PREVENT THE INGRESS OF MOISTURE AND WATER

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DATE	DATE				
PROJECT DRAWN BY	DESIGN DRAWN BY				
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SCALE					
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