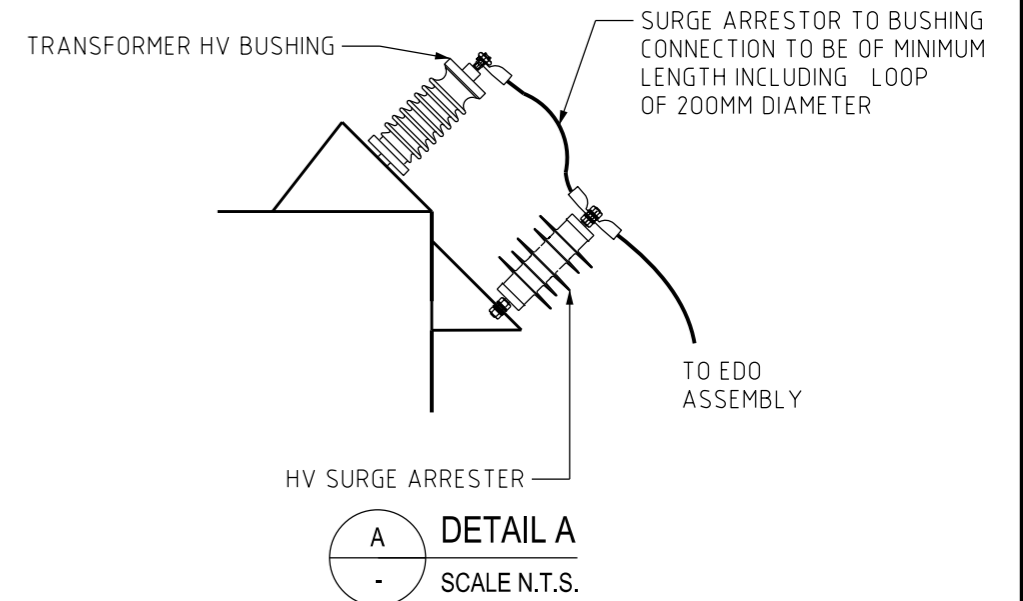
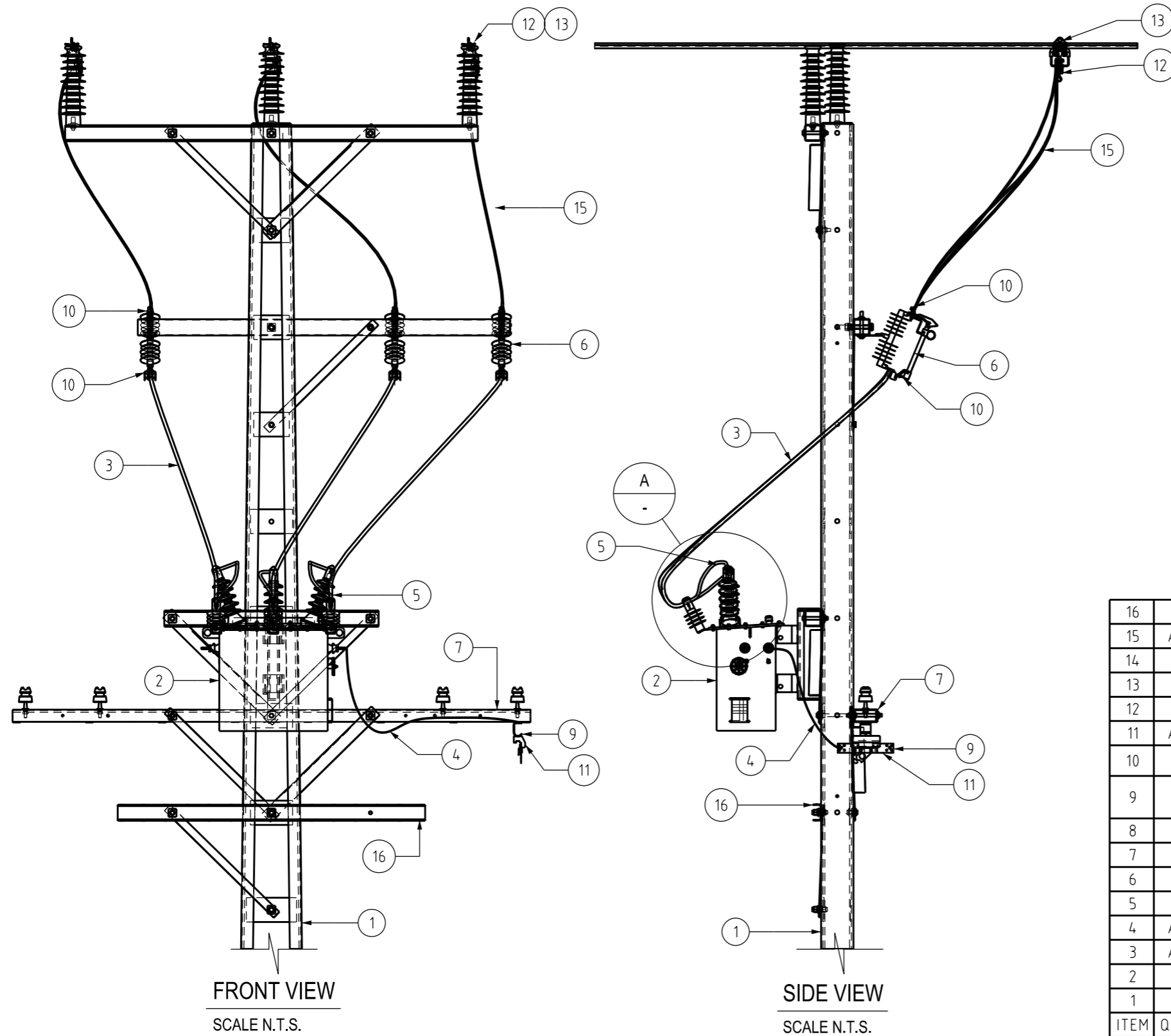


REFER TO SHEET 2 FOR SPECIAL INSTALLATION INSTRUCTIONS.



ITEM	QTY.	DESCRIPTION	ITEM NUMBER	DRG No.
16	1	CROSSARM LV SERVICE	298554	S01-01-02-11
15	AR	70SQMM LV FLEXIBLE	406718	S02-01-01-34
14	3	SURGE DIVERTER - LV	10041	S01-02-06-05
13	3	CLAMP ALUMINIUM BAIL LIVE LINE	238915/239020	S01-01-04-10
12	3	LIVE LINE CLAMP GP	2121	S01-01-04-17
11	AR	BELLMOUTH LUG	REFER TABLE	S02-01-02-11
10	15	LUG 70 sq.mm	406766	S02-01-02-11
9	3	ISOLATING SWITCH - LV	REFER TABLE	S01-01-06-01 OR S01-01-06-08
8	1	POLE TOP UNIT - HV	-	S01-02-02-33
7	1	POLE TOP UNIT - LV - TYPE 'a'	-	S01-02-02-01
6	3	SWITCH FUSE ASSEMBLY - 22 kV EDO	3863	S01-01-06-06
5	3	POLYMER SURGE DIVERTER - HV	-	S01-01-04-19
4	AR	CABLE - LV - SINGLE CORE	REFER TABLE	S02-01-01-34
3	AR	CABLE - LV - XLPE 70 Sq mm Cu	406733	S02-01-01-35
2	1	TRANSFORMER - HANGING TYPE	-	S01-01-09-01
1	1	POLE STRUCTURE	-	S01-02-05-24
		MATERIAL SCHEDULE		

28 SHEET 2 AMENDED.
27 SHEET 2 AMENDED.
26 DRAWING UPDATED NOTES 8, 15, 16 & 17, LV SERVICE ARM
25 TITLEBLOCK & DRAWING NUMBERS FORMATTED

P.BH.	FEB'23	B.C.	B.V.
C.C.	MAR'21	B.V.	H.E.
C.C.	MAY'20	H.E.	B.C.
K.T.	JAN'19	C.C.	C.C.




DES	T.M-L	POWER STANDARD DRAWING	
DRN	PMC	SUBSTATIONS, STEP DOWN, SINGLE POLE	
CKD	N.S.	GENERAL ARRANGEMENT	
APPD	B.T.KENT	SHEET 1 OF 2	
SCALE	N.T.S.	A3	DRAWING NUMBER S01-02-06-01_1
ISSUED	FEBRUARY 1991		
ALL DIM.	IN mm	CAD PRODUCT - DO NOT AMEND MANUALLY	
DRAFTING STANDARD TO A.S.1100		AMDT	

NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					

NOTES:

1. POLYMER HOUSED SURGE DIVERTERS REPLACE SUPERSEDED PORCELAIN HOUSED SURGE ARRESTERS. REFER S01-01-04-19.
2. IF BOLTED CABLE LUG (ITEM NUMBER 5785) HAS BEEN USED ON OLDER INSTALLATIONS, REPLACE WITH SUITABLE COMPRESSION LUG.
3. WHERE GREATER THAN 500KVA TRANSFORMER IS REQUIRED, INSTALL A GROUND MOUNTED SUBSTATION.
4. REFER S01-02-06-05 FOR LV OVERHEAD MAINS CONNECTION DETAILS.
5. HV CABLE CONNECTING FROM THE HV OVERHEAD MAINS TO THE EDO ASSEMBLY SHALL BE A FLEXIBLE CABLE. REFER TO S02-01-01-34. HV CABLE CONNECTING FROM THE EDO ASSEMBLY TO THE HV SURGE ARRESTERS AND HV TRANSFORMER BUSHINGS SHALL BE A HARD DRAWN CABLE. REFER TO S02-01-01-35.
6. ALL LV CABLING SHALL BE A FLEXIBLE CABLE.
7. REFER TO S01-02-05-24 FOR POLE STRUCTURE.
8. REFER TO S01-02-03-11, S01-02-03-12 OR S01-02-03-13 FOR UNDERGROUND EARTHING ARRANGEMENTS
9. REFER TO S01-02-03-23 FOR POLE STRUCTURE EARTHING ARRANGEMENTS.
10. ALL CONNECTIONS SHALL BE GREASED.
11. REFER TO DETAIL A, SHEET 1 FOR HV SURGE ARRESTER AND HV BUSHING CONNECTION ARRANGEMENT
12. REFER TO S04-02-04-02 SECTION FOR ABC TERMINATIONS.
13. LV SERVICE ARM SHALL BE INSTALLED AT THE SAME ORIENTATION AS LV ARM OR TRANSFORMER HANGING ARM IF STAND ALONE SUB (ie.NO LV ARM).
14. BRACES FOR LV SUB ARM TO BE ANGLE BRACES.
15. ANGLE BRACE ONLY REQUIRED FOR 500kVA T/F CROSSARM.
16. IF NECESSARY BRACES FOR SUB ARM, LV ARM AND SERVICE ARM CAN GO UP INSTEAD OF DOWN.
17. NO STAYS TO BE INSTALLED ABOVE THE T/F.
18. FOR LARGE CONSUMER CONNECTION DETAILS REFER TO S01-02-06-18.
19. A) TRANSFORMERS UP TO 200KVA CAN BE INSTALLED ON B, C OR D POLES ON THE WEAK OR STRONG SIDE.
 B) 315KVA TRANSFORMERS WEIGHING EQUAL OR GREATER THAN 1.7 TONNE ARE TO BE ERECTED ON C OR D TYPE POLES.
 C) FOR NON-INDUSTRIAL AREAS PREFERENCE IS FOR 500KVA TRANSFORMERS TO BE ERECTED ON D TYPE POLES IN THE STRONG DIRECTION. ALTERNATIVELY THE WEAK SIDE OF D TYPE POLES MAY BE PERMITTED IF THE CONDUCTOR SPANS ON BOTH SIDES OF TRANSFORMER POLES ARE EQUAL.
 D) FOR INDUSTRIAL AREAS ALL TRANSFORMER SHALL BE MOUNTED ON "D" TYPE POLE AND ON THE STRONG SIDE, REGARDLESS OF TRANSFORMER SIZE.

MATERIAL SELECTION TABLE - LV SIDE									
T / F SIZE (kVA)	LV CABLE			LUG		BI METAL CLAMP		ISOLATING SWITCH	
	ITEM NUMBER	SIZE	QTY	ITEM NUMBER	QTY	ITEM NUMBER	QTY	ITEM NUMBER	QTY
15	402707	35/70 sq.mm	15 m	402689	2	2295	2	2220	3
25	402707	35/70 sq.mm	15 m	402689	4	2295	4	2220	3
50	402707	35/70 sq.mm	15 m	402689	4	2295	4	2220	3
63	402707	70 sq.mm	15m	402689	4	2295	4	2220	3
100	402707	70 sq.mm	15 m	402689	10	2295	4	2246	3
					4			2220	3
200	300368	1x150 sq.mm	15 m	402692	10	2295	4	2246	3
					4			2220	3
315	300368	1x150 sq.mm	15 m	402692	14	2295	4	2170	3
500	400784	1x300 sq.mm	15 m	402695	14	2295	4	2170	3

28 NOTE 19 ADDED. 27 UPDATE NOTE 13. 26 DRAWING UPDATED NOTES 8, 15, 16 & 17, LV SERVICE ARM 25 TITLEBLOCK & DRAWING NUMBERS FORMATTED						P.BH.	FEB'23	B.C.	B.V.					DES	T.M-L	POWER STANDARD DRAWING SUBSTATIONS, STEP DOWN, SINGLE POLE GENERAL ARRANGEMENT SHEET 2 OF 2		
						C.C.	MAR'21	B.V.	H.E.					DRN	PMC			
C.C.	MAY'20	H.E.	B.C.	DATE	N.S.	SCALE	N.T.S.	DRAFTING STANDARD TO A.S.1100	CAD PRODUCT - DO NOT AMEND MANUALLY	AMDT								
K.T.	JAN'19	C.C.	C.C.	APPD	B.T.KENT	ISSUED	FEBRUARY 1991											
AMENDMENTS																		