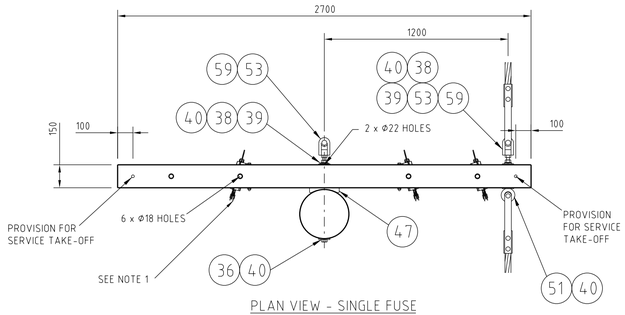
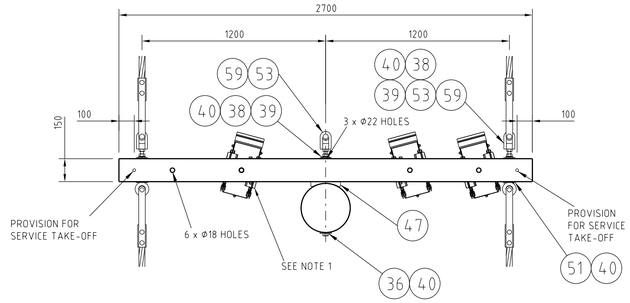
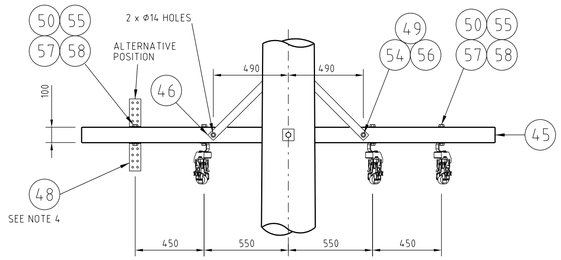


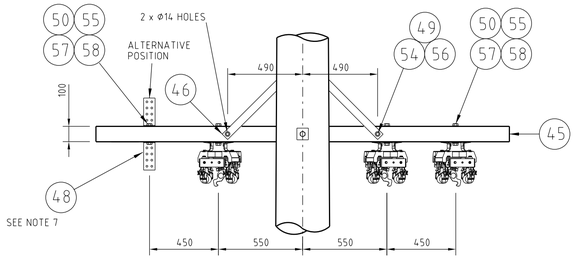
PLAN VIEW - SINGLE FUSE



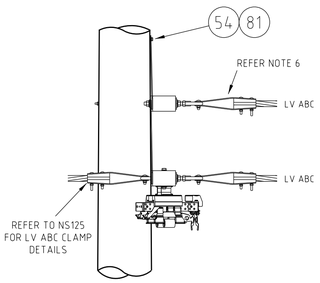
PLAN VIEW - DUAL FUSE



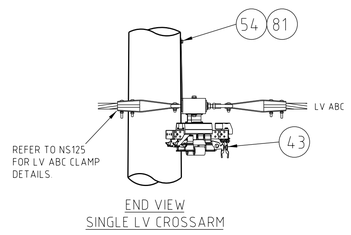
FRONT VIEW - SINGLE FUSE



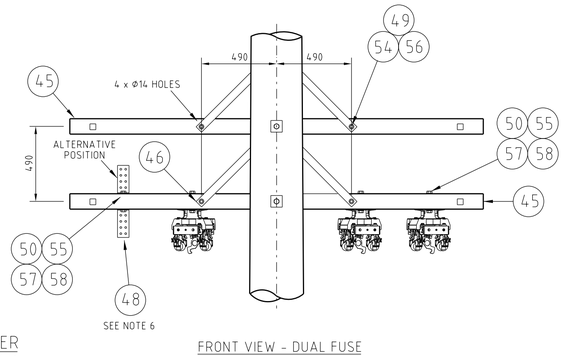
FRONT VIEW - DUAL FUSE



END VIEW
DOUBLE LV CROSSARM



END VIEW
SINGLE LV CROSSARM



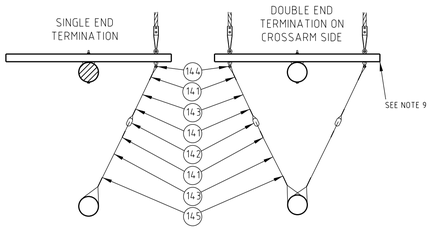
FRONT VIEW - DUAL FUSE
WITH DOUBLE LV CROSSARM

LV CROSSARM DETAILS
25-200kVA SINGLE FUSE CARRIER
200-400kVA DUAL FUSE CARRIER

SCALE 1:20

REFER TO DRAWING 228827 FOR OPEN WIRE CROSSARM DETAILS

LV ABC CROSSARM DETAIL

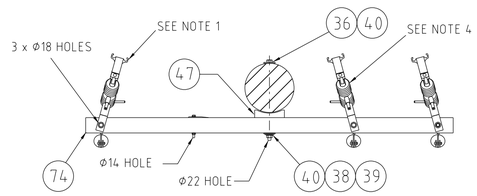


DETAIL 'A'
LV CROSSARM SUPPORT WHERE REQUIRED
(REFER NOTE 8)

SCALE 1:50

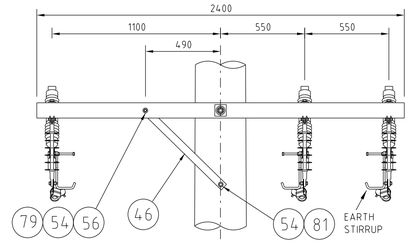
NOTES

1. HV FUSES AND LV FUSES ARE TO BE ANGLED 15° TOWARDS THE CENTRE OF THE POLE.
2. MINIMUM CLEARANCES: 11kV TO EARTH TO BE GREATER THAN 200mm.
   HV TO HV & HV TO LV WITH DROPOUT FUSE OPEN TO BE GREATER THAN 350mm
3. SUSPENSION CLAMP (ITEM 76) MUST BE A FIRM CLAMP ON HV DROPPER CABLE. CONDUIT INSERTS MAY BE USED TO ACHIEVE A FIRM CLAMP.
4. B PHASE (CENTRE) HV FUSE ACCEPTABLE TO BE INSTALLED ON EITHER SIDE OF CROSSARM TO SUIT HV FEEDER CROSSARM PIN ARRANGEMENT. CROSSARM BRACE (ITEM 46) MUST BE MOUNTED OPPOSITE TO B PHASE HV FUSE.
5. WHEN INSTALLING FUSE BASE (ITEM 73) ONTO THE CROSSARM, FIRST INSTALL AN M16 FLAT ROUND WASHER ONTO THE M16 BOLT, THEN PASS THE BOLT THROUGH THE FUSE BASE MOUNTING BRACKET & THE CROSSARM. SECURE BY FIRST INSTALLING THE TWISTED PLATE (ITEM 77) FOLLOWED BY AN M16 CONICAL WASHER, THEN ANOTHER M16 FLAT ROUND WASHER AND FINALLY THE NUT.
6. WHERE MORE THAN 2 LV ABC CABLES ARE REQUIRED IN ONE DIRECTION, AN ADDITIONAL CROSSARM MAY BE INSTALLED ABOVE EXISTING LV CROSSARM. THE UPPER CROSSARM CAN ONLY HAVE LV ABC CABLES RUNNING IN THE DIRECTION SHOWN TO AVOID CLEARANCE AND OPERATING ISSUES WITH HV DROPPER CABLES.
7. LV NEUTRAL COLLECTION PLATE MAY BE INSTALLED EITHER BELOW OR ABOVE LV CROSSARM.
8. A LV CROSSARM THAT WILL BE SUBJECTED TO UNBALANCED LOADS WHICH WOULD EXCEED THE PERMISSIBLE DESIGN LOAD LIMITS OF THE CROSSARM, MUST BE STAYED IN ACCORDANCE WITH DETAIL 'A' PRIOR TO ATTACHING THE UNBALANCED LOAD TO THE CROSSARM. MINIMUM HEIGHT OF STAY TO BE 6.0m ABOVE CENTRE OF CARRIAGEWAY AND 5.5m ABOVE KERB. REFER TO NS220 FOR FURTHER DETAILS.
9. WHEN A DOUBLE END TERMINATION OCCURS ON THE POLE SIDE OF THE LV CROSSARM, A STAY WIRE IS WILL NOT BE REQUIRED.
10. A HV SUPPORT CROSSARM IS REQUIRED FOR ALL POLES WHERE THE DISTANCE BETWEEN HV FEEDER & HV DROP-OUT FUSE CROSSARM IS EQUAL TO OR GREATER THAN 1500mm. THE SUPPORT CROSSARM IS TO BE CONSTRUCTED AS SHOWN IRRESPECTIVE OF THE TYPE OF HV MAINS CABLE, MIDWAY BETWEEN THE HV FEEDER AND HV DROP-OUT FUSE CROSSARM.



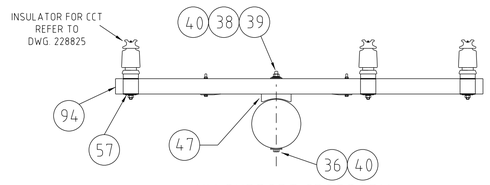
HV DROPOUT FUSE CROSSARM
PLAN VIEW

SCALE 1:20



HV DROPOUT FUSE CROSSARM
FRONT VIEW

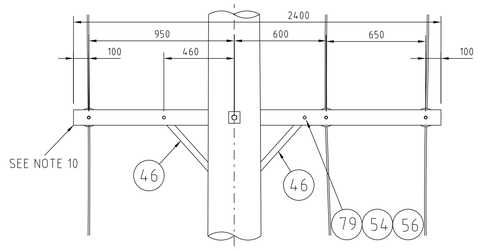
SCALE 1:20



HV SUPPORT CROSSARM
PLAN VIEW

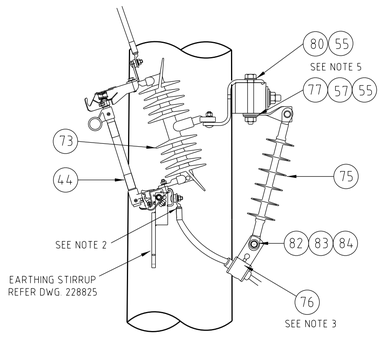
SCALE 1:20

REFER DWG 228825 FOR FURTHER DETAILS



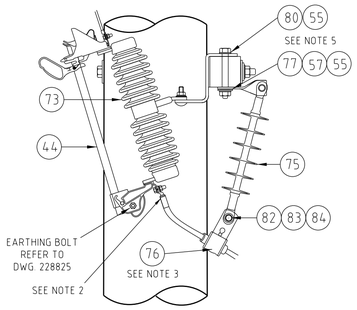
HV SUPPORT CROSSARM
FRONT VIEW

SCALE 1:20



END VIEW - EXPULSION DROPOUT

SCALE 1:10



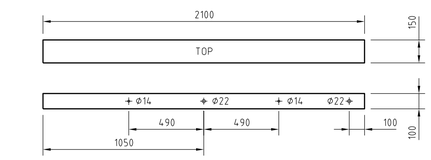
END VIEW - S&C Type SMD-20

SCALE 1:10

HV CROSSARM DETAILS

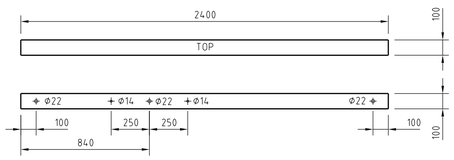
ITEM NUMBERS ARE SHOWN ◯

REFER TO DRAWINGS 228821 OR 244219 FOR ITEM NUMBERS



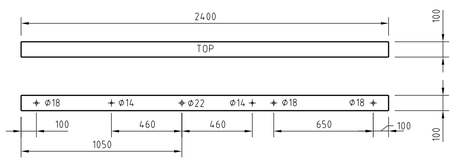
COMMUNICATIONS CROSSARM (ITEM 131a)

SCALE 1:20



COMMUNICATIONS CROSSARM (ITEM 131b)

SCALE 1:20



HV SUPPORT CROSSARM (ITEM 94)

SCALE 1:20

CROSSARM DRILLING DETAILS

AMENDMENTS	
CAD DRAWING DO NOT MANUALLY AMEND	
DWN: PATRICIA RIOS	
CHKED: PHILLIP JONES	
DATE: 30/04/2020	
ITEM NUMBERS CORRECTED.	
6	
APPD by: GLENN FORD	

ASSOCIATED DRAWINGS	
3 PHASE POLE TRANSFORMER ON TIMBER POLE GENERAL ARRANGEMENT	228821
3 PHASE POLE TRANSFORMER ON COMPOSITE POLE GENERAL ARRANGEMENT	244219

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	AS SHOWN
DESIGNED	-
DRAWN	C.MABBUTT
CHECKED	P.JARVIS
APPROVED	D.GRCEV
DATE	15/10/12
PROJECT NUMBER	STD
PROJTRAK NUMBER	-

STANDARD CONSTRUCTION
3 PHASE - 11kV POLE MOUNTED
DISTRIBUTION SUBSTATION
HV,LV ABC AND COMMUNICATIONS
CROSSARM DETAILS

SIZE	DRAWING No	SHEET	AMD
A1	228823	01	6

20110901