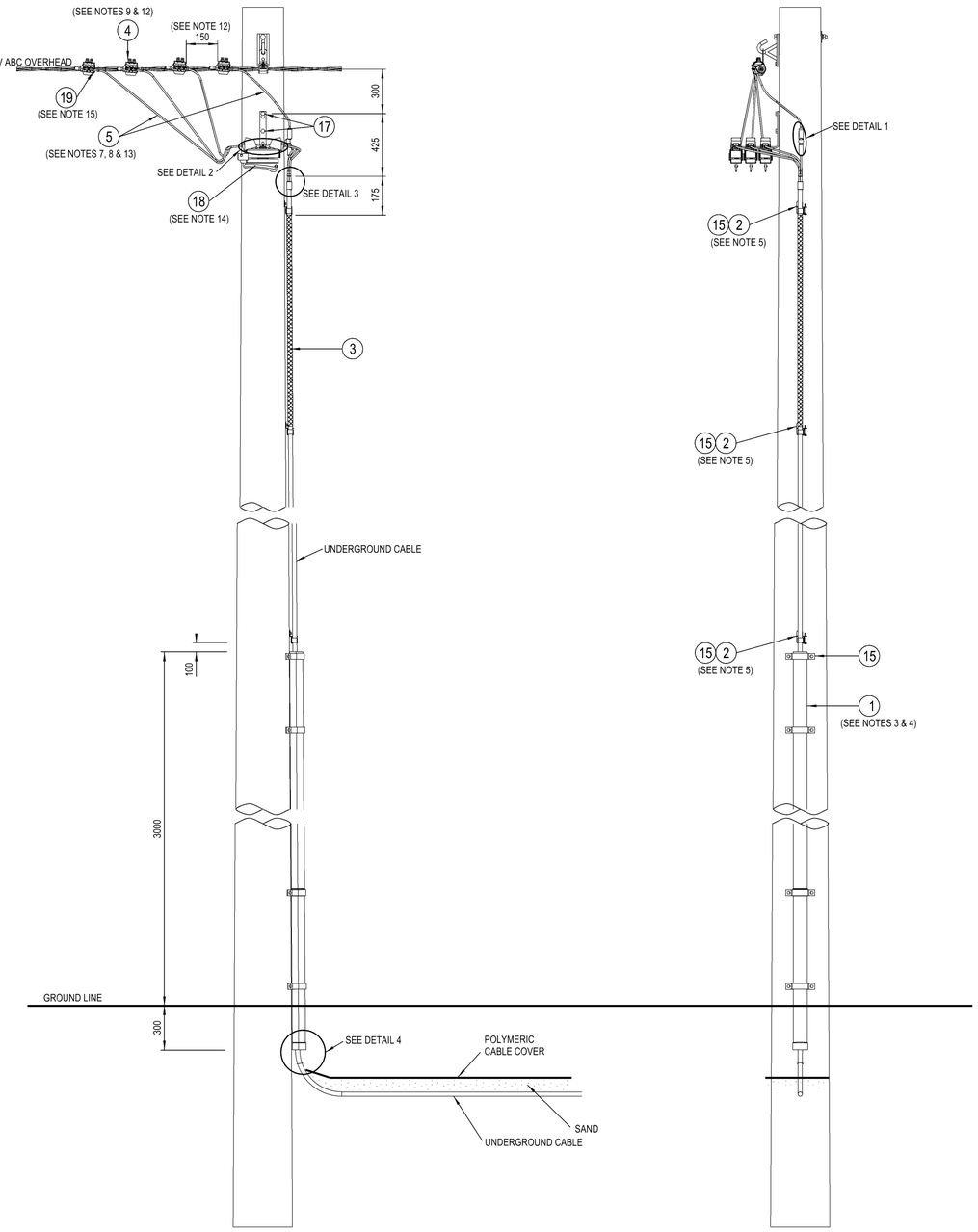
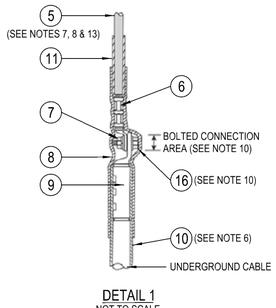
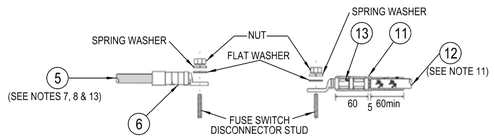


NOTES :

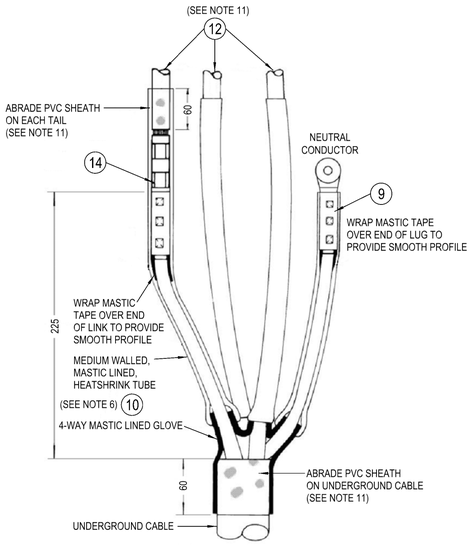
1. THE LV ABC INTERMEDIATE CONSTRUCTION HAS BEEN SHOWN FOR DIAGRAMATIC PURPOSES ONLY. THIS UGOH CONSTRUCTION CAN BE CONSTRUCTED ON ANY APPROPRIATE LV ABC STANDARD CONSTRUCTION.
2. THIS UGOH ARRANGEMENT IS NOT DESIGNED FOR A 400A RATING. REFER TO DUAL OVERHEAD LV ABC DESIGN ON DRG: 25563G IF A 400A RATING IS REQUIRED.
3. THE NON-METALLIC CABLE COVER IS TO BE INSTALLED TO A MINIMUM HEIGHT OF 3000mm ABOVE GROUND LEVEL. THE BASE OF THE CABLE COVER IS ALSO TO BE INSTALLED 300mm BELOW GROUND LEVEL. REFER TO NETWORK STANDARD NS127 FOR ADDITIONAL REQUIREMENTS REGARDING MECHANICAL PROTECTION OF UGOH CONSTRUCTIONS.
4. THE NON-METALLIC CABLE COVER KIT COMPRISES THE FOLLOWING ITEMS:
   a. 3 x U-SHAPED TYPE NON-METALLIC COVER PIECES.
   b. 2 x LARGE GALVANISED SADDLES.
   c. 4 x SMALL GALVANISED SADDLES.
   d. 1 x PRE-FIXED STAINLESS STEEL WHIPPER SNIPPER PROTECTION SHIELD.
5. THE UNDERGROUND CABLE MUST BE CLAMPED AT INTERVALS NOT EXCEEDING 1500mm.
6. THE HEATSHRINK COMPONENTS REQUIRED FOR THE MULTICORE CABLE TERMINATION ARE PACKAGED AS A SINGLE KIT. REFER TO ITEM 10 FOR DETAILS.
7. THE LV CABLE BOND CONDUCTOR IS TO BE SELECTED TO MATCH THE OVERHEAD LV ABC CONDUCTOR SIZE.
8. THE INDIVIDUAL CORES OF THE FOUR CORE LV ABC BONDING CONDUCTOR ARE TO BE SEPARATED PRIOR TO INSTALLATION.
9. INSULATION PIERCING CONNECTORS SHALL EITHER HAVE A GREASE FILLED CAP FITTED TO SEAL THE LV CABLE BOND CONDUCTOR ENDS OR THE LV CABLE BOND CONDUCTOR ENDS SHALL BE SEALED WITH A UV INHIBITED HEATSHINK CABLE CAP.
10. THE BOLTED CONNECTION AREA IS TO BE COVERED WITH FIBREGLASS TAPE TO KEEP IT FREE OF ANY ADHESIVES FLOWING FROM THE MASTIC LINED HEATSHRINK SLEEVE.
11. ABRADE THE PVC CABLE SHEATH TO THE DIMENSIONS SHOWN ON THE CABLE TERMINATION DETAIL.
12. A MINIMUM DISTANCE OF 150mm IS TO BE MAINTAINED BETWEEN INSULATING PIERCING CONNECTORS.
13. THE LV CABLE BOND CONDUCTOR IS TO BE INSTALLED WITH A LOOP AS SHOWN TO ALLOW MOISTURE TO DRAIN AWAY FROM THE CABLE CONNECTION TERMINALS.
14. THE LV ABC FUSE SWITCH DISCONNECTOR KIT WILL COMPRISE THE FOLLOWING COMPONENTS:
    a. 3 x 400A SINGLE POLE FUSE SWITCHES.
    b. 3 x 400A CONNECTING LINKS.
    c. 1 x UNIVERSAL POLE MOUNTING BRACKET.
15. A UV RESISTANT CABLE TIE SHOULD BE USED TO MECHANICALLY CONNECT THE LV ABC BONDING CONDUCTOR TO THE LV ABC OVERHEAD CONDUCTOR WITHIN 150mm OF THE IPC.
16. REFER TO DESIGNER SAFETY REPORT D23/319142 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.



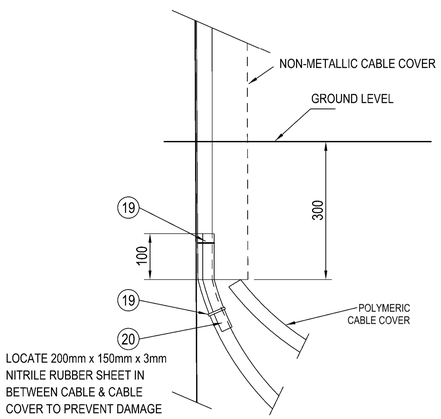
DETAIL 1
NOT TO SCALE



DETAIL 2
NOT TO SCALE



DETAIL 3
NOT TO SCALE



LOCATE 200mm x 150mm x 3mm NITRILE RUBBER SHEET IN BETWEEN CABLE & CABLE COVER TO PREVENT DAMAGE TO CABLE SHEATH FROM THE EDGE OF THE COVER.

DETAIL 4

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
20	SHEET - NITRILE RUBBER, 200x150x3mm		127225	1
19	TIE - CABLE, 382x7.5mm, BLACK, UV STABILISED (SEE NOTE 15)		59907	A/R
18	DISCONNECTOR - KIT, FUSE SWITCH, LV ABC (SEE NOTE 14)		185818	1
17	SCREW - COACH, M16x100mm, GALVANISED		H40662	2
16	TAPE - FIBREGLASS (SEE NOTE 10)		69799	A/R
15	SCREW - COACH, M12x75mm, GALVANISED		50468	A/R
14	LINK - COMPRESSION, BI-METALLIC, 300mm²		186233	3
	LINK - COMPRESSION, BI-METALLIC, 240mm²		141804	
13	LUG - COMPRESSION, TINNED COPPER, 150mm² (M12 HOLE IN PALM)		179773	3
12	CABLE - 150mm², CU, PVC INSULATED, BLACK, UV STABILISED (SEE NOTE 11)		61408	A/R
11	SLEEVE - HEATSHRINK, MASTIC LINED (CUT TO 1x150mm LENGTHS)		60186	1
10	TERMINATION - KIT, HEATSHRINK (FOR USE WITH 240mm² OR 300mm² CABLE) (SEE NOTE 6)		60079	1
9	LUG - COMPRESSION, BI-METALLIC, 300mm²		186234	1
	LUG - COMPRESSION, BI-METALLIC, 240mm²		141770	
8	SLEEVE - HEATSHRINK, MASTIC LINED (CUT TO 250mm LENGTH)		143776	1
7	BOLT - ASSEMBLY, STAINLESS STEEL (INCLUDES 1 x M12x30mm BOLT, 1 x M12 NUT, 2 x FLAT WASHERS & 1 x SPRING WASHER)		175911	1
6	LUG - COMPRESSION, BI-METALLIC, PRE-INSULATED (FOR 150mm² LVABC)		150441	4
	LUG - COMPRESSION, BI-METALLIC, PRE-INSULATED (FOR 95mm² LVABC)		58743	
5	CONDUCTOR - 150mm² ABC, LV, 4C, ALUMINIUM, XLPE (SEE NOTES 7, 8 & 13)		148080	A/R
	CONDUCTOR - 95mm² ABC, LV, 4C, ALUMINIUM, XLPE (SEE NOTES 7, 8 & 13)		67959	
4	CONNECTOR - INSULATION PIERCING (95-150mm² LVABC/95-150mm² LVABC) (SEE NOTES 9 & 12)		176591	4
3	CONDUIT - FLEXIBLE, 70mm, GREY, PVC		78329	1.5m
2	CLAMP - CABLE, STAINLESS STEEL BAND, ADJUSTABLE (WITH NITRILE RUBBER LINER) (SEE NOTE 5)		177651	A/R
1	COVER - CABLE, KIT, NON-METALLIC (SEE NOTES 3 & 4)		184571	1

ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE.

CAD DRAWING DO NOT MANUALLY AMEND

AMENDMENTS

ASSOCIATED DRAWINGS	
DUAL LV ABC CONDUCTOR UGOH CONSTRUCTION 1-521 (LV1-46)	255636

NETWORK STANDARD

Ausgrid

145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:20
DESIGNED	P.JONES
DRAWN	P.RIOS
CHECKED	B.WEBSTER
APPROVED	G.FORD
DATE	16/01/2025
PROJECT NUMBER	STD
PROJTRAK NUMBER	-

STANDARD CONSTRUCTION
LV ABC CONDUCTOR UGOH CONSTRUCTION FOR 240 OR 300 AL4 XQ Z/SAC CABLE WITH FUSE SWITCH DISCONNECTOR
1-512 (LV1-71)

SIZE A1 | DRAWING No 255632 | SHEET 1 | AMD 0

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