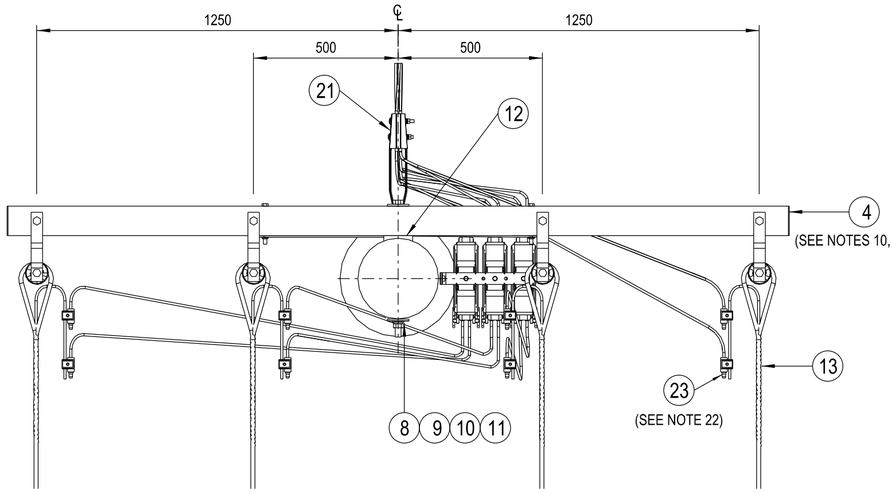

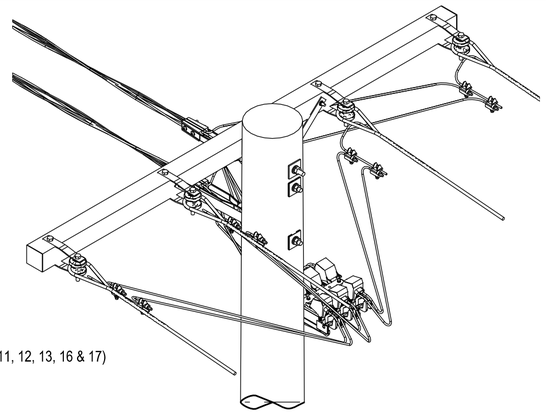

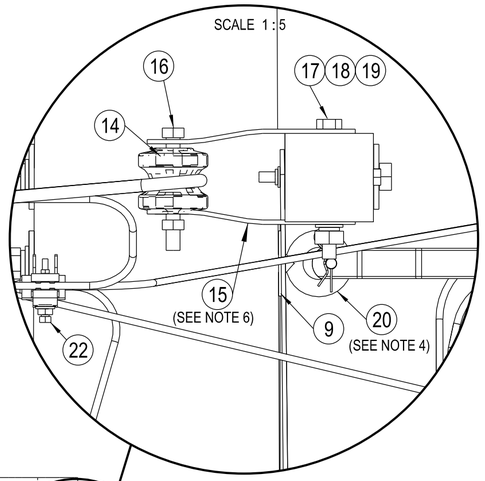

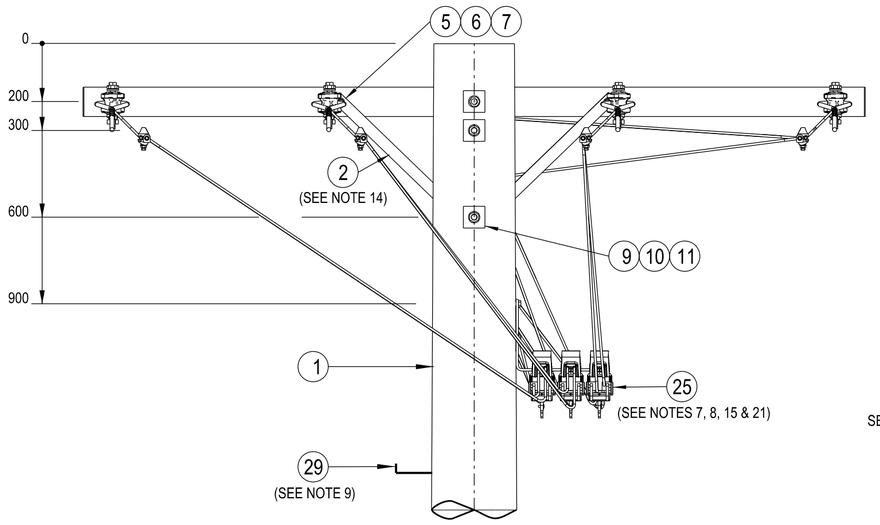

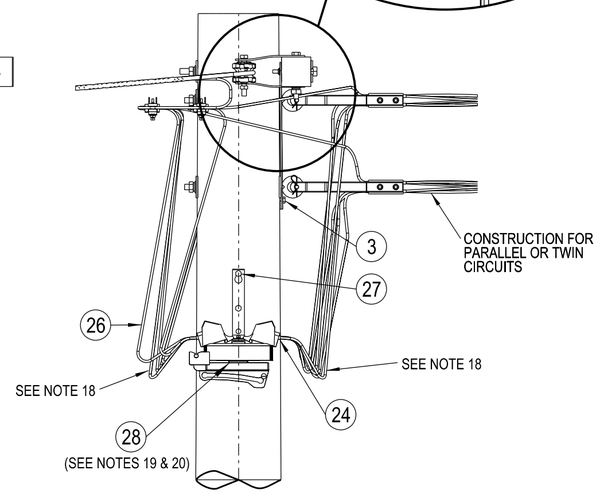

NOTES :

1. THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS:
   a. POLE LENGTH AND STRENGTH.
   b. SPECIAL FOUNDATION REQUIREMENTS.
   c. POLE EMBEDMENT DEPTH.
   d. CONDUCTOR SIZE.
   e. CROSSARM SIZE AND BRACE REQUIREMENTS.
   f. STAY REQUIREMENTS.
   g. DEVIATION ANGLE.
2. ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
3. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
4. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
5. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE, DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
6. THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
7. THE MINIMUM DISTANCE BETWEEN THE LV CONDUCTORS AND THE TOP MOUNTING HOLE OF THE FUSE/LINK SWITCH BRACKET IS TO BE MAINTAINED AT 600mm FOR A SINGLE CIRCUIT AND 300mm FOR PARALLEL CIRCUITS.
8. WHEN THE POLE IS LOCATED NEAR THE PROPERTY BOUNDARY, THE FUSE/LINK SWITCH IS TO BE LOCATED ON THE ROAD SIDE OF THE POLE. WHEN THE POLE IS LOCATED NEAR THE KERB, THE FUSE/LINK SWITCH IS TO BE LOCATED ON THE PROPERTY SIDE OF THE POLE.
9. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
10. COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERED OPTION UNDER NORMAL CIRCUMSTANCES.
11. WHEN EXTENDING LV ABC FROM EXISTING LV OPEN WIRE CONDUCTORS, THE EXISTING CROSSARM MAY BE USED.
12. A 2706mm COMPOSITE FIBRE CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. FOR NARROW FEEDER ALIGNMENTS, A SHORTER CROSSARM MAY BE CONSIDERED TO OVERCOME DESIGN AND SITE CONSTRAINTS.
13. ONLY THE 2706mm COMPOSITE FIBRE CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 262732, 514373, 514374 & 15233 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
14. THE 690mm CROSSARM BRACES ARE TO BE USED ON A 2706mm, 2106mm, 2700mm & 2100mm CROSSARM. THE 490mm CROSSARM BRACES ARE TO BE USED ON A 2406mm & 2400mm CROSSARM.
15. THE LV ABC FUSE/LINK DISCONNECTOR KIT WILL COMPRISE THE FOLLOWING COMPONENTS:
    3 x 400A SINGLE POLE FUSE SWITCHES
    3 x 400A CONNECTING LINKS
    1 x UNIVERSAL POLE MOUNTING BRACKET
16. FOR DETAILS OF APPROVED ALTERNATE WAGNER COMPOSITE FIBRE CROSSARMS, REFER TO DRG: 265964.
17. WHEN SPECIFYING WAGNER COMPOSITE FIBRE CROSSARMS, A REVIEW OF ALL THE HARDWARE ATTACHED TO THE CROSSARM WILL BE REQUIRED.
18. 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.
19. THE LV FUSE RATING IS TO BE DETERMINED BY THE LINE DESIGNER WITH REFERENCE TO AUSGRID'S TECHNICAL GUIDE T0024 - TS4200 FUSE STANDARD.
20. THE CONNECTING LINKS PROVIDED IN THE LV ABC FUSE/LINK DISCONNECTOR KIT ARE TO BE REPLACED WITH THE SPECIFIED LV FUSES.
21. AS THE FUSE/LINK DISCONNECTOR WILL GENERALLY BE NORMALLY CLOSED, THE FUSE/LINK HOLDER RETAINING CLIPS ARE TO BE REMOVED SO THE HOLDER CAN BE READILY OPERATED AND REMOVED WITH A LINK STICK.
22. INSTALL PUSH ON END CAPS ON THE EXPOSED ENDS OF ALL ABC CABLES.
23. REFER TO DESIGNER SAFETY REPORT D25/265823 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY SINGLE CABLE	QTY PARALLEL CABLE
29	STEP - POLE, SCREW-IN (SEE NOTE 9)	250144	185198	A/R	A/R
28	FUSE - HRC, 500V, DIN SIZE 2 (SEE NOTES 19 & 20)			3	3
27	SCREW - COACH, M16x100mm, GALVANISED		H40662	2	2
26	CONDUCTOR - OVERHEAD, TAPPINGS (TO SUIT CONDUCTOR SIZE)			4m	8m
25	DISCONNECTOR - FUSE/LINK, LV ABC, KIT (SEE NOTES 7, 8, 15 & 21)		185818	1	1
24	LUG - COMPRESSION, BI-METALLIC, PRE-INSULATED (TO SUIT CONDUCTOR)	514053		6	12
23	CAP - END, PUSH ON (TO SUIT 25mm² LV ABC) (SEE NOTE 22)		H109447	4	8
	CAP - END, PUSH ON (TO SUIT 95mm² & 150mm² LV ABC) (SEE NOTE 22)		H77222		
22	CONNECTOR - BI-METALLIC, SERVICE TAKE OFF, 25mm² (COPPER MAINS)		H109694	4	8
	CONNECTOR - ALUMINIUM, SERVICE TAKE OFF, 25mm² (ALUMINIUM MAINS)		H109678		
	CONNECTOR - PRE-INSULATED TAP, 95-150mm² (COPPER MAINS)		148387		
	CONNECTOR - INSULATION PIERCING, 95-150mm² (ALUMINIUM MAINS)		73569		
21	CLAMP - TERMINATION (TO SUIT 2x25mm² OR 4x25mm² LV ABC)		H113464	1	2
	CLAMP - TERMINATION (TO SUIT 2x95mm² OR 4x95mm² LV ABC)		176651		
	CLAMP - TERMINATION (TO SUIT 4x150mm² LV ABC)		176652		
20	EYEBOLT - M20, GALVANISED (LENGTH TO SUIT POLE) (SEE NOTE 4)	513653		1	2
19	WASHER - CONICAL, M16, GALVANISED (USE WITH HARDWOOD CROSSARMS)	518082	H39647	4	4
	WASHER - SPRING, M16, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)				
18	WASHER - FLAT, M16, GALVANISED	518081	177984	4	4
17	BOLT & NUT - M16x150mm, HEX., GALVANISED	515466	175672	4	4
16	BOLT & NUT - M16x130mm, HEX., GALVANISED	515466	46979	4	4
15	BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 6)	514379	H17762	8	8
14	INSULATOR - SHACKLE, REEL, TYPE SH.LV2	514407	75812	4	4
13	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		4	4
12	BLOCK - GAIN, ALUMINIUM, 100mm		146274	1	1
11	WASHER - FLAT, M20, GALVANISED	518081	177986	2	3
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	2	3
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	4	6
8	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		1	1
7	WASHER - CONICAL, M12, GALVANISED (USE WITH HARDWOOD CROSSARMS)	518082	H39639	2	2
	WASHER - SPRING, M12, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)	518082	H12047		
6	WASHER - FLAT, M12, GALVANISED	518081	177982	4	4
5	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm CROSSARM)	515466	46847	2	2
	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2700mm & 2100mm CROSSARMS)	515466	46888		
	BOLT & NUT - M12x130mm, HEX., GALVANISED (USE WITH 2706mm, 2406mm & 2106mm CROSSARMS)	515466	46805		
4	CROSSARM - 2400x125x100mm, TYPE LT3, HARDWOOD (SEE NOTES 10, 11, 12, 13, 16 & 17)	15233	71746	1	1
	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 10, 11, 12, 13, 16 & 17)	514374	H23745		
	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 10, 11, 12, 13, 16 & 17)	514373	H23892		
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 10, 11, 12, 13, 16 & 17)	262732	186774		
	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 10, 11, 12, 13, 16 & 17)	262732	186775		
	CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 10, 11, 12, 13, 16 & 17)	262732	186776		
3	SCREW - COACH, M12x100mm, GALVANISED		H40484	1	1
2	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 14)	46	76745	2	2
	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 14)	514385	H17738		
1	POLE - TIMBER (AS REQUIRED)	513988		1	1

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

CAD DRAWING
DO NOT MANUALLY AMEND
AMENDMENTS

COMPOSITE FIBRE CROSSARMS WAGNER SPECIFICATION	265964
2700mm CROSSARMS FOR LV, 11kV, 22kV AND 33kV CONSTRUCTION DETAILS	514373
COMPOSITE FIBRE CROSSARMS SPECIFICATION	262732
2100mm CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS	514374
WOODEN CROSSARMS FOR 415V OVERHEAD MAINS	15233
20mm EYEBOLT LOADING AND DEVIATION GRAPH	520324

ASSOCIATED DRAWINGS

NETWORK STANDARD
Ausgrid

42 HONEYSUCKLE DRIVE,
NEWCASTLE WEST NSW 2300

SCALE	1:15
DESIGNED	P.JONES
DRAWN	P.RIOS
CHECKED	C.ROSKELL
APPROVED	G.FORD
DATE	27/11/2025
PROJECT NUMBER	STD
TRIM REF NUMBER	-

STANDARD CONSTRUCTION
LV OPEN WIRE TO ABC CONSTRUCTION WITH LV FUSES
1-65

SIZE A2 | DRAWING No 271449 | SHEET 1 | REV 0

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