

A

B

C

D

E

F

A

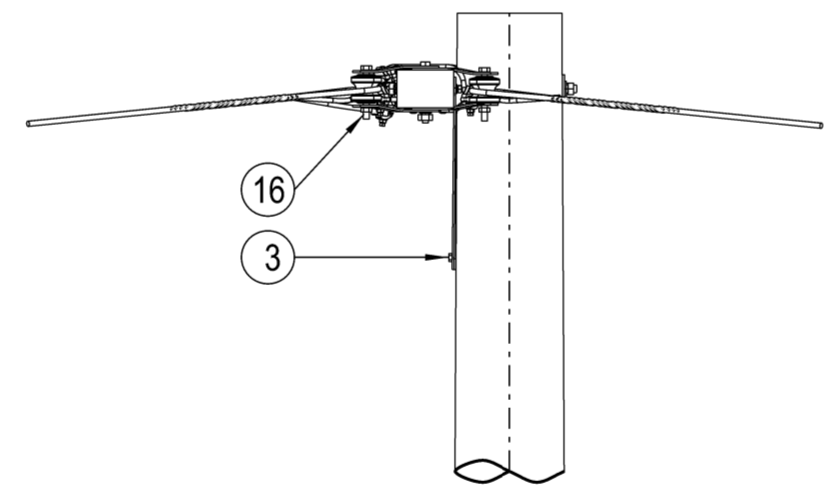
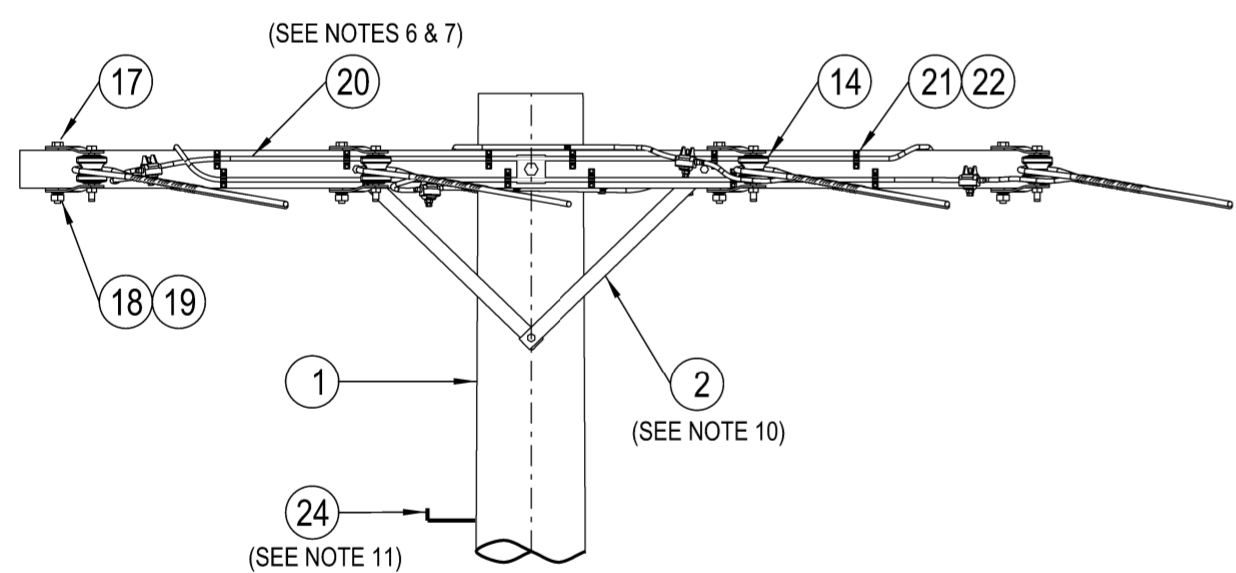
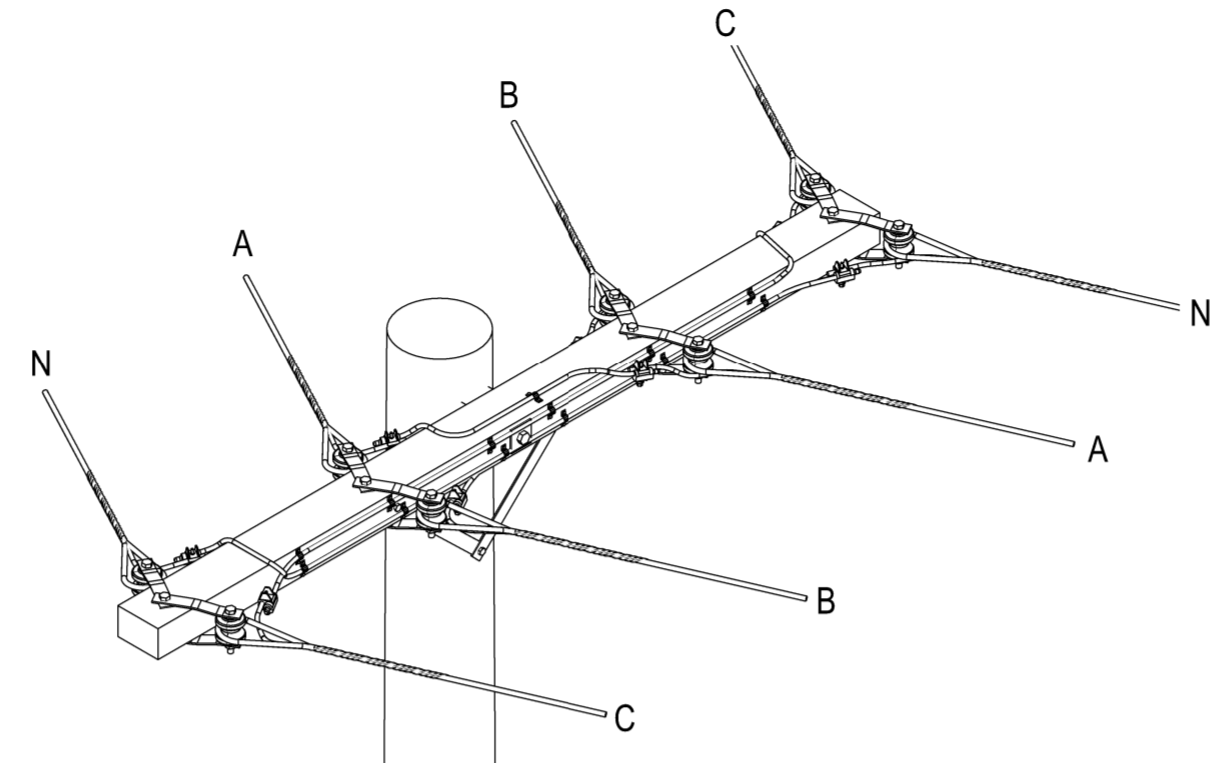
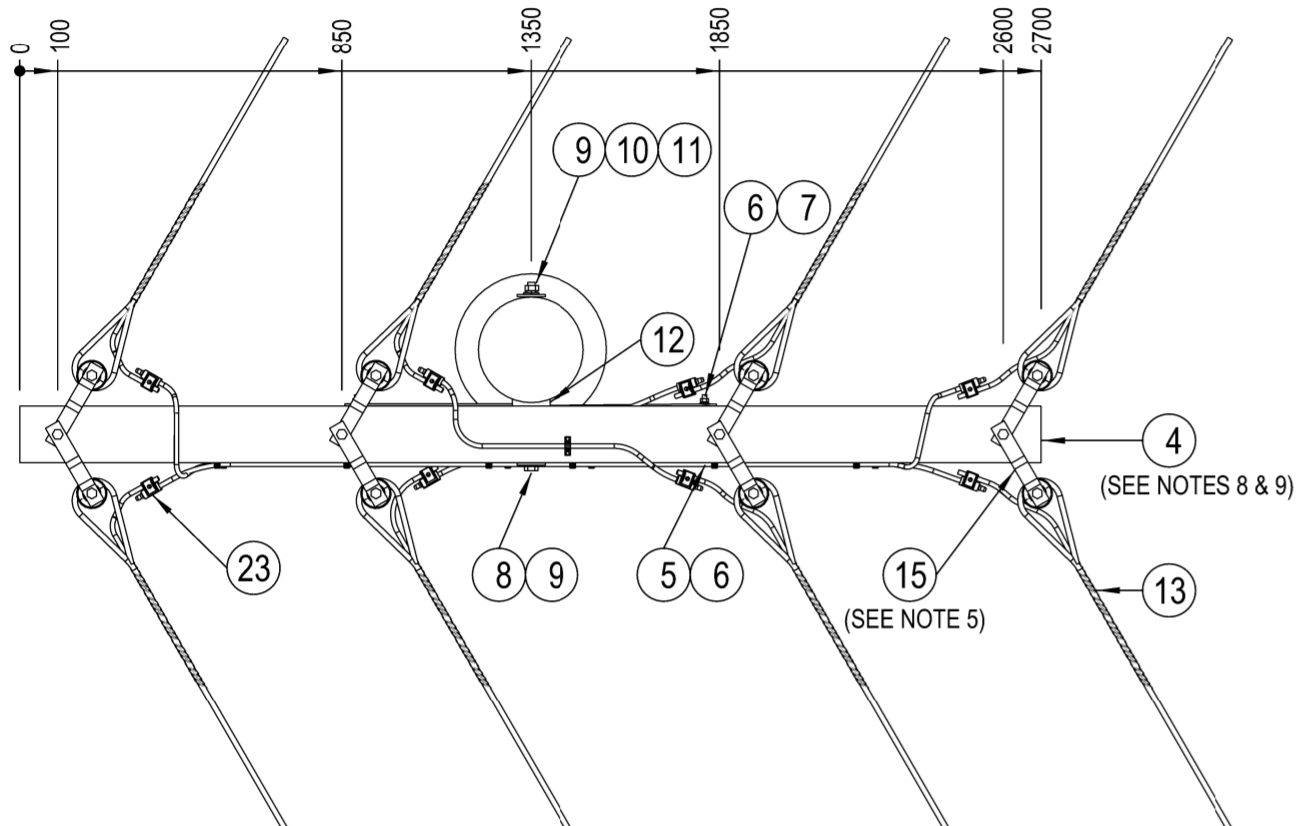
B

C

D

E

F



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. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
3. ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
4. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
5. THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
6. THE LV CABLE BOND CONDUCTOR IS TO BE SELECTED TO SUIT THE CURRENT RATING OF THE PHASE CONDUCTORS.
7. THE INDIVIDUAL CORES OF THE FOUR CORE LV ABC BONDING CONDUCTOR ARE TO BE SEPARATED PRIOR TO INSTALLATION.
8. A 2700mm CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. FOR NARROW FEEDER ALIGNMENTS, A 2100mm OR 2400mm CROSSARM MAY BE CONSIDERED TO OVERCOME DESIGN AND SITE CONSTRAINTS. A 2750mm COMPOSITE FIBRE CROSSARM IS TO BE USED WHEN THE MAXIMUM LOAD OF A TIMBER CROSSARM IS EXCEEDED.
9. ONLY THE 2700mm CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 514374, 15233 & 237491 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
10. THE 690mm CROSSARM BRACES ARE TO BE USED ON A 2100mm, 2700mm AND 2750mm CROSSARM. THE 490mm CROSSARM BRACES ARE TO BE USED ON A 2400mm CROSSARM.
11. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
12. REFER TO DESIGNER SAFETY REPORT D20/479042 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

24	STEP - POLE, SCREW-IN (SEE NOTE 11)	250144	185198	A/R
23	CONNECTOR - INSULATION PIERCING, 95-150mm ² LVABC TO 50-150mm ² BARE COPPER		143387	8
	CONNECTOR - INSULATION PIERCING, 95mm ² LVABC TO 7-120mm ² BARE COPPER		176580	
	CONNECTOR - INSULATION PIERCING, 95-150mm ² LVABC TO 50-240mm ² BARE ALUMINIUM		73569	
22	SCREW - SELF DRILLING, #12x45mm		175567	A/R
	SADDLE - CABLE, 20mm, DOUBLE SIDED, GALVANISED (USE WITH 150mm ² LVABC)		176493	
21	SADDLE - CABLE, 16mm, DOUBLE SIDED, GALVANISED (USE WITH 95mm ² LVABC)		66068	A/R
	CONNECTOR - 150mm ² ABC, LV 4C, ALUMINIUM, XLPE (SEE NOTES 6 & 7)		148080	
20	CONNECTOR - 95mm ² ABC, LV 4C, ALUMINIUM, XLPE (SEE NOTES 6 & 7)		67959	A/R
	WASHER - FLAT, M16, GALVANISED	518081	177984	
19	WASHER - SPRING, M16, GALVANISED (USE WITH 2750mm CROSSARM)			4
	WASHER - CONICAL, M16, GALVANISED (USE WITH 2100mm, 2400mm & 2700mm CROSSARMS)	518082	H39647	
17	BOLT & NUT - M16x160mm, HEX., GALVANISED (USE WITH 2750mm CROSSARM)	515466	47043	4
	BOLT & NUT - M16x150mm, HEX., GALVANISED (USE WITH 2100mm, 2400mm & 2700mm CROSSARMS)	515466	175672	
16	BOLT & NUT - M16x130mm, HEX., GALVANISED	515466	46979	8
15	BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 5)	514379	H17762	16
14	INSULATOR - SHACKLE, REEL, TYPE SH.LV2	514407	75812	8
13	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		8
12	BLOCK - GAIN, ALUMINIUM, 125mm (USE WITH 2750mm CROSSARM)		146282	1
	BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2100mm, 2400mm & 2700mm CROSSARMS)		146274	
11	WASHER - FLAT, M20, GALVANISED	518081	177986	1
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	1
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	2
8	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		1
	WASHER - SPRING, M12, GALVANISED (USE WITH 2750mm CROSSARM)	518082	H12047	2
7	WASHER - CONICAL, M12, GALVANISED (USE WITH 2100mm, 2400mm & 2700mm CROSSARMS)	518082	H39639	
	WASHER - FLAT, M12, GALVANISED	518081	177982	4
6	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm & 2750mm CROSSARMS)	515466	46847	2
	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2100mm & 2700mm CROSSARMS)	515466	46888	
5	CROSSARM - 2750x125x125mm, ITEM 1, COMPOSITE FIBRE (SEE NOTES 8 & 9)	237491	183933	1
	CROSSARM - 2400x125x100mm, TYPE LT3, HARDWOOD (SEE NOTES 8 & 9)	15233	71746	
	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD, (SEE NOTES 8 & 9)	514374	H23745	
4	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 8 & 9)	514373	H23892	
	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	1
3	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 10)	46	76745	2
	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 10)	514385	H17738	
2	POLE - TIMBER (AS REQUIRED)	513988		1

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
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ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE.

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS	DWN: PATRICIA RIOS CHKD: PHILLIP JONES	DATE: 10/12/2020 MATERIAL LIST & NOTES AMENDED. SHEET SIZE & LAYOUT CHANGED.	APPD by: GLENN FORD	DWN: P. RIOS CHKD: P. JONES	DATE: 27/06/2022 MATERIAL LIST & NOTES AMENDED.	APPD by: G. FORD
1	2	2	3	4	5	6

ASSOCIATED DRAWINGS	
2100mm CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS	514374
COMPOSITE FIBRE CROSSARMS SPECIFICATION	237491
WOODEN CROSSARMS FOR 415V OVERHEAD MAINS	15233

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND,
NSW 2287

SCALE	1:20	STANDARD CONSTRUCTION LV THROUGH TRANSPOSITION TERMINATION CONSTRUCTION 1-16	SIZE A2	DRAWING No 513962	SHEET 01	AMD 2
DESIGNED	J.W.C					
DRAWN	L.B					
CHECKED	J.B					
APPROVED	C COOPER					
DATE	01/06/07					
PROJECT NUMBER	STD	PROJTRAK NUMBER	STD			