

A

B

C

D

E

F

A

B

C

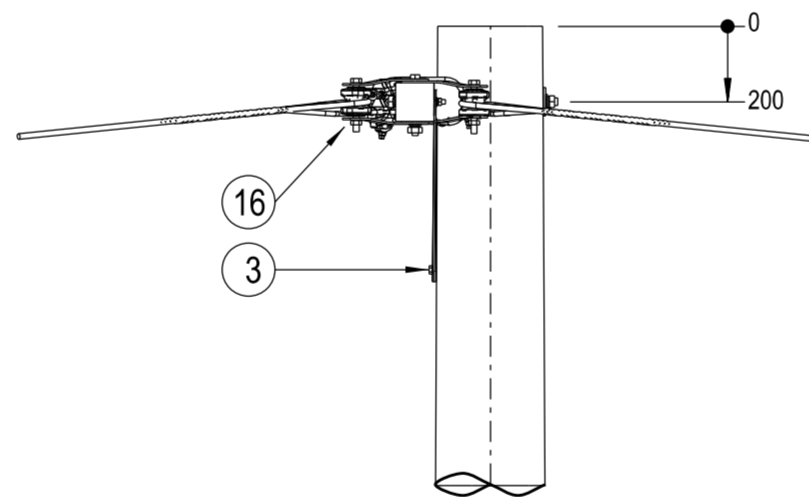
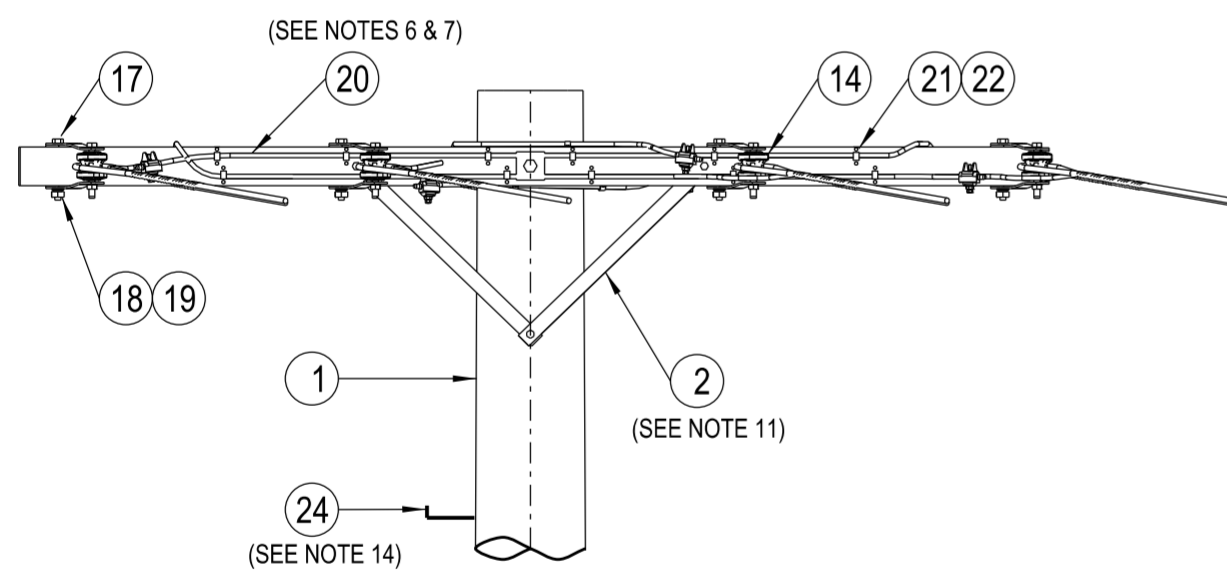
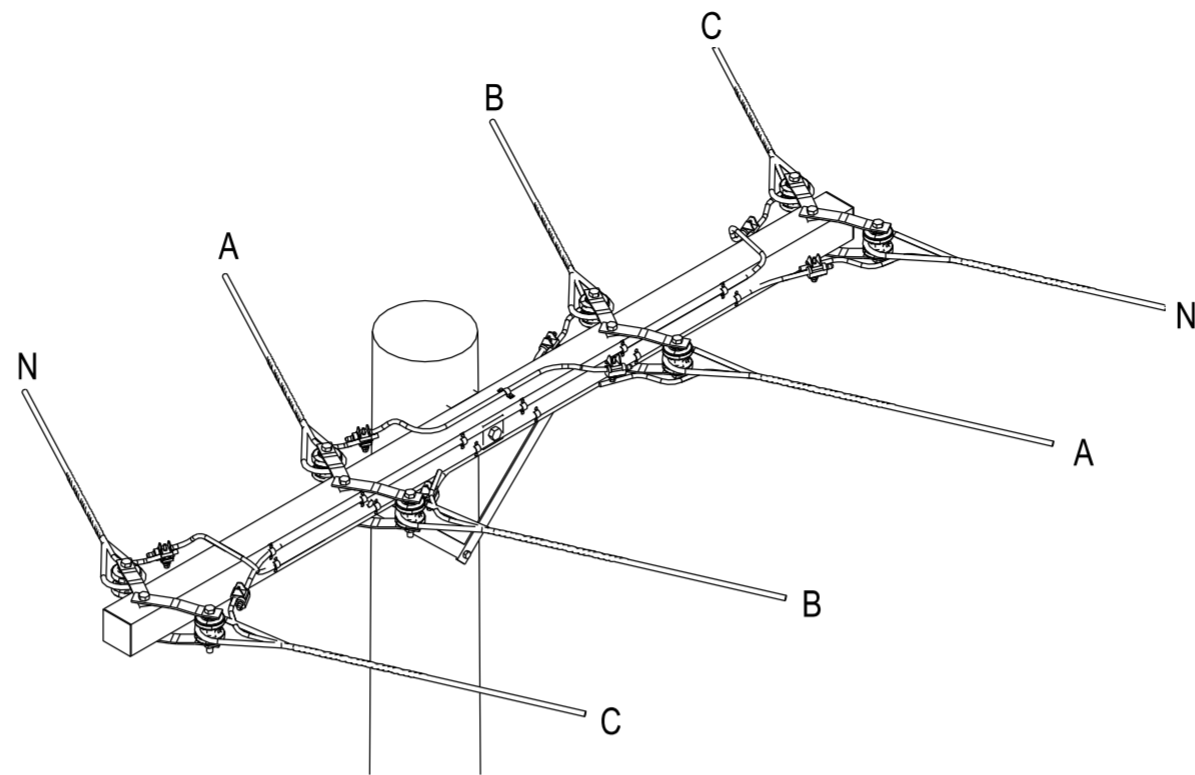
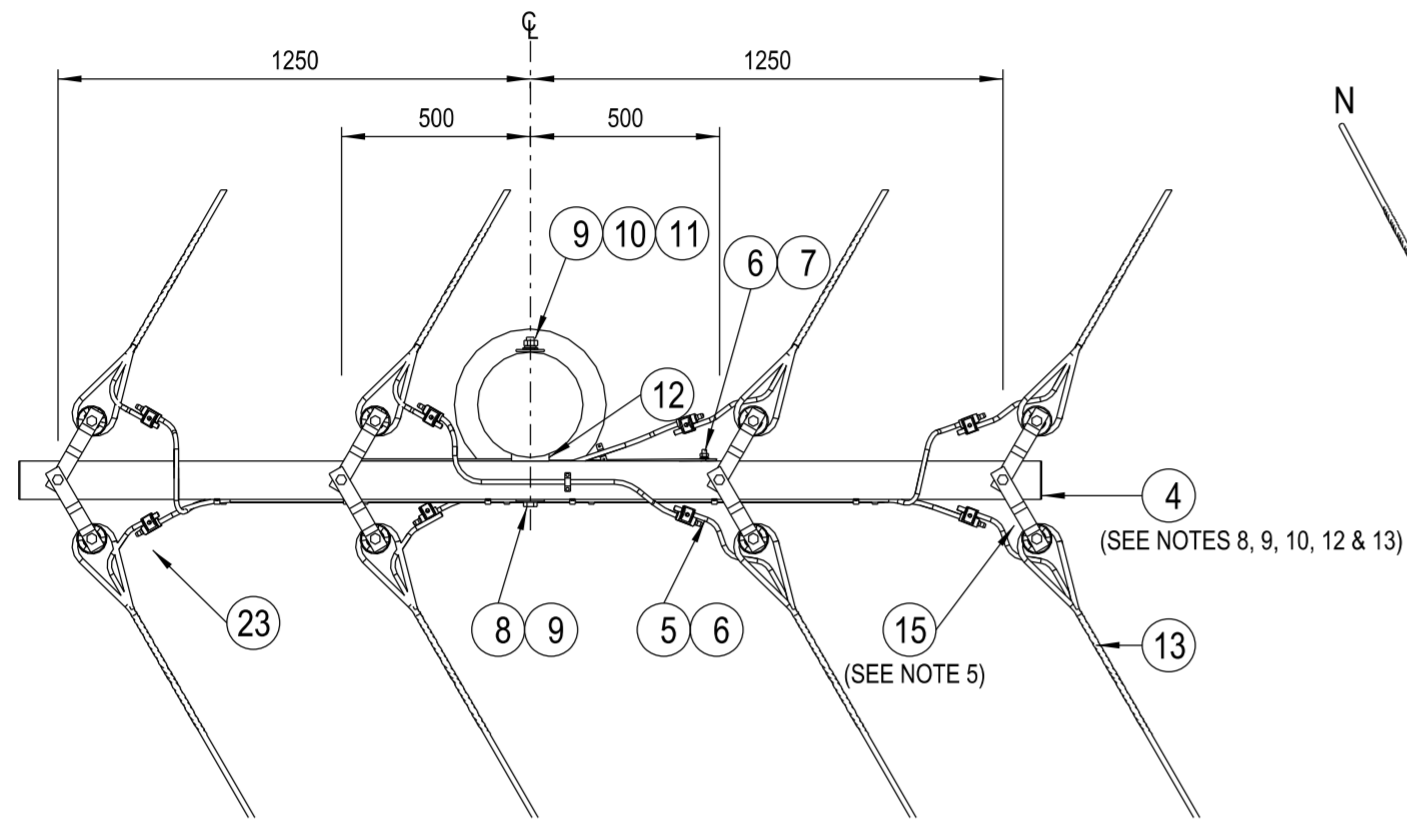
D

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. COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERRED OPTION UNDER NORMAL CIRCUMSTANCES.
9. 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.
10. 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.
11. 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.
12. FOR DETAILS OF APPROVED ALTERNATE WAGNER COMPOSITE FIBRE CROSSARMS, REFER TO DRG: 265964.
13. WHEN SPECIFYING WAGNER COMPOSITE FIBRE CROSSARMS, A REVIEW OF ALL THE HARDWARE ATTACHED TO THE CROSSARM WILL BE REQUIRED.
14. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
15. REFER TO DESIGNER SAFETY REPORT D20/479042 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.



ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
24	STEP - POLE, SCREW-IN (SEE NOTE 14)	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	
22	CONNECTOR - INSULATION PIERCING, 95-150mm ² LVABC TO 50-240mm ² BARE ALUMINIUM		73569	A/R
	SCREW - SELF DRILLING, #12x45mm		175567	
21	SADDLE - CABLE, 20mm, DOUBLE SIDED, GALVANISED (USE WITH 150mm ² LVABC)		176493	A/R
	SADDLE - CABLE, 16mm, DOUBLE SIDED, GALVANISED (USE WITH 95mm ² LVABC)		66068	
20	CONNECTOR - 150mm ² ABC, LV 4C, ALUMINIUM, XLPE (SEE NOTES 6 & 7)		148080	A/R
	CONNECTOR - 95mm ² ABC, LV 4C, ALUMINIUM, XLPE (SEE NOTES 6 & 7)		67959	
19	WASHER - FLAT, M16, GALVANISED	518081	177984	4
18	WASHER - CONICAL, M16, GALVANISED (USE WITH HARDWOOD CROSSARMS)	518082	H39647	4
	WASHER - SPRING, M16, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)			
17	BOLT & NUT - M16x150mm, HEX., GALVANISED	515466	175672	4
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, 100mm		146274	1
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 - CONICAL, M12, GALVANISED (USE WITH HARDWOOD CROSSARMS)	518082	H39639	
7	WASHER - SPRING, M12, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)	518082	H12047	2
	WASHER - FLAT, M12, GALVANISED	518081	177982	
6	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm CROSSARM)	515466	46847	4
	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	
	CROSSARM - 2400x125x100mm, TYPE LT3, HARDWOOD (SEE NOTES 8, 9, 10, 12 & 13)	15233	71746	
	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 8, 9, 10, 12 & 13)	514374	H23745	
5	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 8, 9, 10, 12 & 13)	514373	H23892	1
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 8, 9, 10, 12 & 13)	262732	186774	
	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 8, 9, 10, 12 & 13)	262732	186775	
	CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 8, 9, 10, 12 & 13)	262732	186776	
4	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	1
	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 11)	46	76745	
3	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 11)	514385	H17738	2
	POLE - TIMBER (AS REQUIRED)	513988		

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	DWN: P. R. CHKD: P. J.	APPD: G. F.	DATE: 25/09/2024 WAGNER CROSSARM OPTION REMOVED FROM MATERIAL LIST. COMPOSITE FIBRE CROSSARM OPTIONS ADDED TO MATERIAL LIST. NOTES ADDED.
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ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
COMPOSITE FIBRE CROSSARMS WAGNER SPECIFICATION		265964		
2700mm CROSSARMS FOR LV, 11kV, 22kV & 33kV CONSTRUCTION DETAILS		514373		
COMPOSITE FIBRE CROSSARMS SPECIFICATION		262732		
WOODEN CROSSARMS FOR 415V OVERHEAD MAINS		15233		
WOODEN CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS		514374		

NETWORK STANDARD

145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:20	STANDARD CONSTRUCTION LV THROUGH TRANSPOSITION TERMINATION CONSTRUCTION 1-16	SIZE A2	DRAWING No 513962	SHEET 1	AMD 3
DESIGNED	J.W.C					
DRAWN	L.B					
CHECKED	J.B					
APPROVED	C COOPER					
DATE	01/06/87					
PROJECT NUMBER	STD					
PROJTRAK NUMBER	STD					