



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. PHASE CONDUCTOR AND OVERHEAD EARTHWIRE SIZE.
 - e. VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
 - f. STAY REQUIREMENTS.
 - g. DEVIATION ANGLE.
 - h. ASSESSED EARTHING REQUIREMENTS.
2. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
3. THE OVERHEAD EARTHWIRE DOWN LEAD IS TO BE FIXED TO THE POLE SO AS TO GIVE THE MAXIMUM CLEARANCE TO THE NEAREST PHASE CONDUCTOR.
4. WHEN DESIGNING UNDERBUILT CIRCUITS ON A 33kV STRUCTURE, THE POSSIBLE USE OF LIVE LINE WORKING PROCEDURES MUST BE CONSIDERED WHEN NOMINATING THE CIRCUIT SEPARATION TO ALLOW A MINIMUM CLEARANCE OF 2500mm IF REQUIRED.
5. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
6. LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
7. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
8. EYEBOLTS ARE TO BE INSTALLED IN THE DIRECTION OF THE OVERHEAD CONDUCTORS.
9. ALL BOLTS AND EYEBOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
10. THE EARTHING DOWN LEAD IS TO BE FIXED TO THE POLE USING DOUBLE SIDED GALVANISED STEEL SADDLES AT INTERVALS OF NOT GREATER THAN 450mm. SADDLES MUST BE NO LESS THAN 100mm FROM EDGES OF REMOVED INSULATION. ONLY SUFFICIENT INSULATION WILL BE REMOVED FROM THE DOWN LEAD TO MAKE AN EFFICIENT TERMINATION.
11. NON-TENSION COMPRESSION SLEEVES TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
12. USE THE ANGLE TYPE CONDUCTOR TIE ARRANGEMENT AS SHOWN ON DRG: 514038.
13. CONDUCTOR TO POLE CLEARANCE IS TO BE A MINIMUM OF 380mm.
14. INSTALL A 33/920 PIN INSULATOR ARRANGEMENT TO HOLD THE CONDUCTOR TAPPING TO INCREASE THE CONDUCTOR CLEARANCE TO THE STEEL CROSSARM AND REDUCE THE RISK OF A FLASHOVER DUE TO PERCHED BIRDS.
15. STAYS TO BE INSTALLED SO THAT THE STAY WIRE CLEARANCE FROM THE PHASE CONDUCTORS COMPLIES WITH THE STATUTORY REQUIREMENTS.
16. ONLY THE 3000mm STEEL CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRG: 237491 FOR DRILLING PATTERN OF ALTERNATE CROSSARM.
17. ONLY THE SINGLE PHASE CONDUCTOR WITH OPGW THROUGH TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
18. USE THE OPGW THROUGH TERMINATION ARRANGEMENT WHEN ERECTING AN UNBROKEN OPGW OVERHEAD EARTHWIRE. USE THE OPGW THROUGH SPLICE BOX TERMINATION ARRANGEMENT WHEN BREAKING AN OPGW OVERHEAD EARTHWIRE. USE THE STANDARD EARTHWIRE TERMINATION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
19. WHEN USING THE OPGW THROUGH SPLICE BOX TERMINATION ARRANGEMENT, REFER TO DRG: 565743 FOR SPLICE BOX AND COILED CABLE BRACKET MOUNTING DETAILS.
20. POLE STEPS SHOULD ONLY BE INSTALLED ON POLES WHERE ACCESS FOR NORMAL MAINTENANCE VEHICLES CANNOT BE MAINTAINED FOR THE LIFE OF THE POLE. IF POLE STEPS ARE INSTALLED, THEY ARE TO COMPLY WITH THE REQUIREMENTS OF NETWORK STANDARD NS128.
21. REFER TO DESIGNER SAFETY REPORT D22/295781 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

19	STEP - POLE, SCREW-IN (SEE NOTE 20)	250144	A/R
18	EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT - 1A (SEE NOTES 17 & 18)	519450	1
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT - 1C (SEE NOTES 17, 18 & 19)	565747	
17	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT - 1A (SEE NOTES 17 & 18)	565747	6
	JOINT - COMPRESSION, NON TENSION (TO SUIT DUAL CONDUCTORS) (SEE NOTES 11 & 17)	514053	
16	JOINT - COMPRESSION, NON TENSION (TO SUIT CONDUCTOR) (SEE NOTES 11 & 17)	514053	3
	EARTHWIRE - OVERHEAD, DOWN LEAD, POLE HARDWARE, MOUNTING & BONDING, ARRANGEMENT - 2 (SEE NOTES 3 & 10)	514145	
15	EARTHWIRE - OVERHEAD, DOWN LEAD, POLE HARDWARE, MOUNTING & BONDING, ARRANGEMENT - 3 (SEE NOTES 3 & 10)	514145	2
14	TIE - CONDUCTOR, HIGH VOLTAGE, SUPPORT ARRANGEMENT (SEE NOTE 12)	514038	2m
13	INSULATOR - 33kV, AERODYNAMIC, (33/920) AND PIN ARRANGEMENT (SEE NOTE 14)	514006	2
	INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT - 2 (SEE NOTES 6 & 17)	250120	
12	INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT - 2 (SEE NOTES 6 & 17)	158754	6
	INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT - 2 (SEE NOTES 6 & 17)	158754	
11	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	12
10	EYEBOLT - M20, GALVANISED (LENGTH TO SUIT POLE) (SEE NOTE 5)	513653	2
9	WASHER - FLAT, M20, GALVANISED	518081	4
8	WASHER - SPRING, M20, GALVANISED	518082	4
7	WASHER - CONICAL, M20, GALVANISED	518082	4
6	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE) (USE WITH COMPOSITE CROSSARM)	518081	4
	WASHER - LIP, M24, GALVANISED (USE WITH STEEL CROSSARM)	518081	
5	EYEBOLT - M20x200mm, GALVANISED (SEE NOTE 5)	513653	4
4	CROSSARM - MOUNTING ARRANGEMENT - 1 (GALVANISED STEEL OR COMPOSITE FIBRE CROSSARM) (SEE NOTE 16)	514176	2
3	FOOTING - TIMBER POLE, ARRANGEMENT (SEE NOTE 1)	508726	1
2	EARTHING - ARRANGEMENT, TIMBER POLE STRUCTURE, TYPE SE-M5	508786	1
1	POLE - TIMBER (AS REQUIRED)	513988	1

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

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS	
DWN: P.R.	
CHKD: P.J.	
APP'D: G.F.	
DATE: 08/11/2022	
MULTIPLE CROSSARM OPTION & FOUNDATION DETAILS ADDED. NOTES & MATERIAL LIST AMENDED. DUAL CONDUCTOR & OHEW OPTIONS ADDED.	
6	
OPGW CONDUCTOR SPLICE BOX & COILED CABLE BRACKET MOUNTING ARRANGEMENT	565743
COMPOSITE FIBRE CROSSARMS SPECIFICATION	237491
HV CONDUCTOR TIE SUPPORT ARRANGEMENTS	514038
20mm EYEBOLT LOADING AND DEVIATION GRAPH	520324
ASSOCIATED DRAWINGS	

<p>NETWORK STANDARD 145 NEWCASTLE RD WALLSEND, NSW 2287</p>	SCALE	1:25	STANDARD CONSTRUCTION 33kV DELTA CORNER POLE TERMINATION CONSTRUCTION WITH OVERHEAD EARTHWIRE 4-27E
	DESIGNED	-	
	DRAWN	PETER SAUNDERS	
	CHECKED	P.A.S.	
	APPROVED	R.BREMELL	
DATE	26/04/1996		
PROJECT NUMBER	STD		
PROJTRAK NUMBER	-		
SIZE		A2	DRAWING No
		514171	
SHEET		1	AMD
			6