



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. STAY REQUIREMENTS.
 - f. DEVIATION ANGLE.
 - g. ASSESSED EARTHING REQUIREMENTS.
2. THE STRUCTURE SHALL BE ERECTED SO THAT THE POLES ARE VERTICAL, THE TOPS OF POLES ARE LEVEL AND THE CROSSARM IS HORIZONTAL.
3. A MAXIMUM INSULATOR RADIAL SWING ANGLE MUST NOT BE EXCEEDED TO ENSURE THE MINIMUM 132KV PHASE TO EARTH CLEARANCE OF 1.3m IS OBSERVED.
4. THE CROSSARM IS TO BE INSTALLED SO THE SHORTER OVERHANG FROM THE POLE IS LOCATED ON THE INSIDE OF THE LINE DEVIATION ANGLE.
5. STAYS TO BE INSTALLED SO THAT THE STAYWIRE CLEARANCE FROM THE PHASE CONDUCTORS COMPLIES WITH THE STATUTORY REQUIREMENTS.
6. LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
7. WHERE A 250 x 90mm CROSSARM AND/OR STAYS ARE SPECIFIED, THE CROSSARM MOUNTING HOLES IN THE TIMBER POLES ARE TO BE COUNTERBORED TO 50mm DIAMETER & 50mm DEEP, AND THE COLLAR (ITEM 9) IS TO BE LET INTO THE POLE BEHIND THE CROSSARM.
8. ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
9. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
10. THE EARTHING DOWN LEAD IS TO BE FIXED TO THE POLE WITH DOUBLE SIDED GALVANISED STEEL SADDLES AT INTERVALS NOT GREATER THAN 450mm. ONLY SUFFICIENT INSULATION IS TO BE REMOVED FROM THE DOWN LEAD TO MAKE AN EFFECTIVE CONNECTION TO THE POLE HARDWARE. SADDLES MUST BE NO LESS THAN 100mm FROM EDGES OF REMOVED INSULATION.
11. THE BI-METALLIC PARALLEL GROOVE CLAMP IS TO BE INSTALLED WITH THE COPPER CONDUCTOR BELOW THE ALUMINIUM CONDUCTOR SO THAT COPPER SALTS DO NOT WASH ONTO THE ALUMINIUM CONDUCTOR.
12. ONLY THE OPGW OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
13. USE THE OPGW SUSPENSION ARRANGEMENT WHEN ERECTING AN OPGW OVERHEAD EARTHWIRE. USE THE STANDARD EARTHWIRE SUSPENSION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
14. 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 NS135.
15. REFER TO DESIGNER SAFETY REPORT D22/123289 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	QTY
19	STEP - POLE, SCREW-IN (SEE NOTE 14)	250144	A/R
18	SCREW - SELF DRILLING, TIMBER, TYPE 17, 10Gx25mm, GALVANISED (S/C: 184996)		A/R
17	EARTHWIRE - SUSPENSION, OVERHEAD, MOUNTING, ARRANGEMENT -M2 OR M2A (SEE NOTES 12 & 13)	507790	2
	OPGW - SUSPENSION, CONDUCTOR, MOUNTING, ARRANGEMENT -1a (SEE NOTES 12 & 13)	244708	
16	SADDLE - 12.7mm, DOUBLE SIDED, GALVANISED (S/C: 176494) (SEE NOTE 10)		A/R
15	CONDUCTOR - 19/2.14(70mm ²) COPPER, PVC COVERED, BLACK (S/C: 60111) (SEE NOTE 10)		A/R
14	INSULATOR - LONGROD, 132kV, POLYMERIC STRING, ARRANGEMENT -6 (SEE NOTE 6)	520314	3
13	WASHER - SPRING, M20, GALVANISED	518082	6
12	WASHER - FLAT, M20, GALVANISED	518081	12
11	BOLT & NUT - M20x50mm, HEX., GALVANISED	515465	6
10	PLATE - DROPPER, GALVANISED	508727	3
9	COLLAR - Ø50mm (SEE NOTE 7)	507739	2
8	WASHER - FLAT, M24, GALVANISED	518081	2
7	WASHER - CONICAL, M24, GALVANISED	518082	2
6	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø27mm HOLE)	518081	2
5	BOLT & NUT - M24, HEX., GALVANISED (LENGTH TO SUIT POLE)	515465	2
4	CROSSARM - CHANNEL, 250x90x9600mm, GALVANISED (WP-BA-H) (SEE NOTE 4)	508762	1
	CROSSARM - CHANNEL, 180x75x9600mm, GALVANISED (WP-BA-L) (SEE NOTE 4)	508762	
3	FOOTING - TIMBER POLE, ARRANGEMENT (SEE NOTE 1)	508726	2
2	EARTHING - TIMBER, MULTIPLE POLE, ARRANGEMENT	520225	1
1	POLE - TIMBER, TYPE WPI (AS REQUIRED)	507726	2

ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE

<p>CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS</p> <p>DWN: PATRICIA RIOS CHKD: PHILLIP JONES</p> <p>DATE: 07/07/2014 DRAWING CHANGED TO STANDARD CONSTRUCTION, STAYS & MATERIALS LIST AMENDED: AUSGRID BORDER ADDED: CHEW SHOWN AS OPGW.</p> <p>APPD by: DOMINIC SHIELDS DWN: P.RIOS CHKD: P.JONES</p> <p>DATE: 22/04/2022 ITEMS 16 & 19 CHANGED, ITEM 18 ADDED, NOTES & MATERIAL LIST AMENDED.</p> <p>APPD by: G.FORD</p>	<p>ASSOCIATED DRAWINGS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr> </table>	1	2	3	4	5	6	7	8	<p>NETWORK STANDARD</p> <p>145 NEWCASTLE RD WALLSEND, NSW 2287</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE</td> <td>1:25</td> <td rowspan="6" style="text-align: center; vertical-align: middle;"> STANDARD CONSTRUCTION 132kV HORIZONTAL 'H' POLE ANGLE SUSPENSION CONSTRUCTION WITH TWIN OVERHEAD EARTHWIRE WP-BA </td> </tr> <tr> <td>DESIGNED</td> <td>-</td> </tr> <tr> <td>DRAWN</td> <td>P.S.</td> </tr> <tr> <td>CHECKED</td> <td>P.A.S.</td> </tr> <tr> <td>APPROVED</td> <td>G SKINNER</td> </tr> <tr> <td>DATE</td> <td>06/01/97</td> </tr> <tr> <td>PROJECT NUMBER</td> <td>STD</td> <td>SIZE</td> <td>DRAWING No</td> <td>SHEET</td> <td>AMD</td> </tr> <tr> <td>PROJTRAK NUMBER</td> <td>-</td> <td>A2</td> <td>507776</td> <td>01</td> <td>8</td> </tr> </table>	SCALE	1:25	STANDARD CONSTRUCTION 132kV HORIZONTAL 'H' POLE ANGLE SUSPENSION CONSTRUCTION WITH TWIN OVERHEAD EARTHWIRE WP-BA	DESIGNED	-	DRAWN	P.S.	CHECKED	P.A.S.	APPROVED	G SKINNER	DATE	06/01/97	PROJECT NUMBER	STD	SIZE	DRAWING No	SHEET	AMD	PROJTRAK NUMBER	-	A2	507776	01	8
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