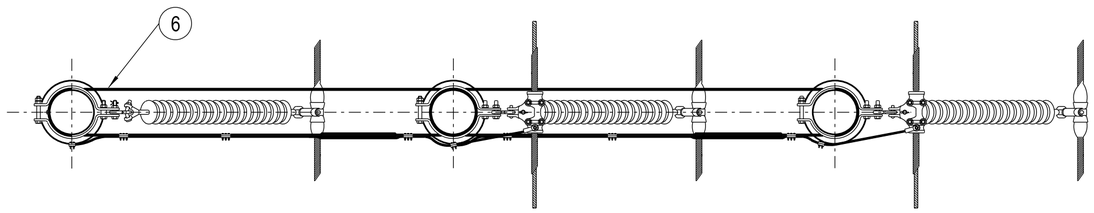

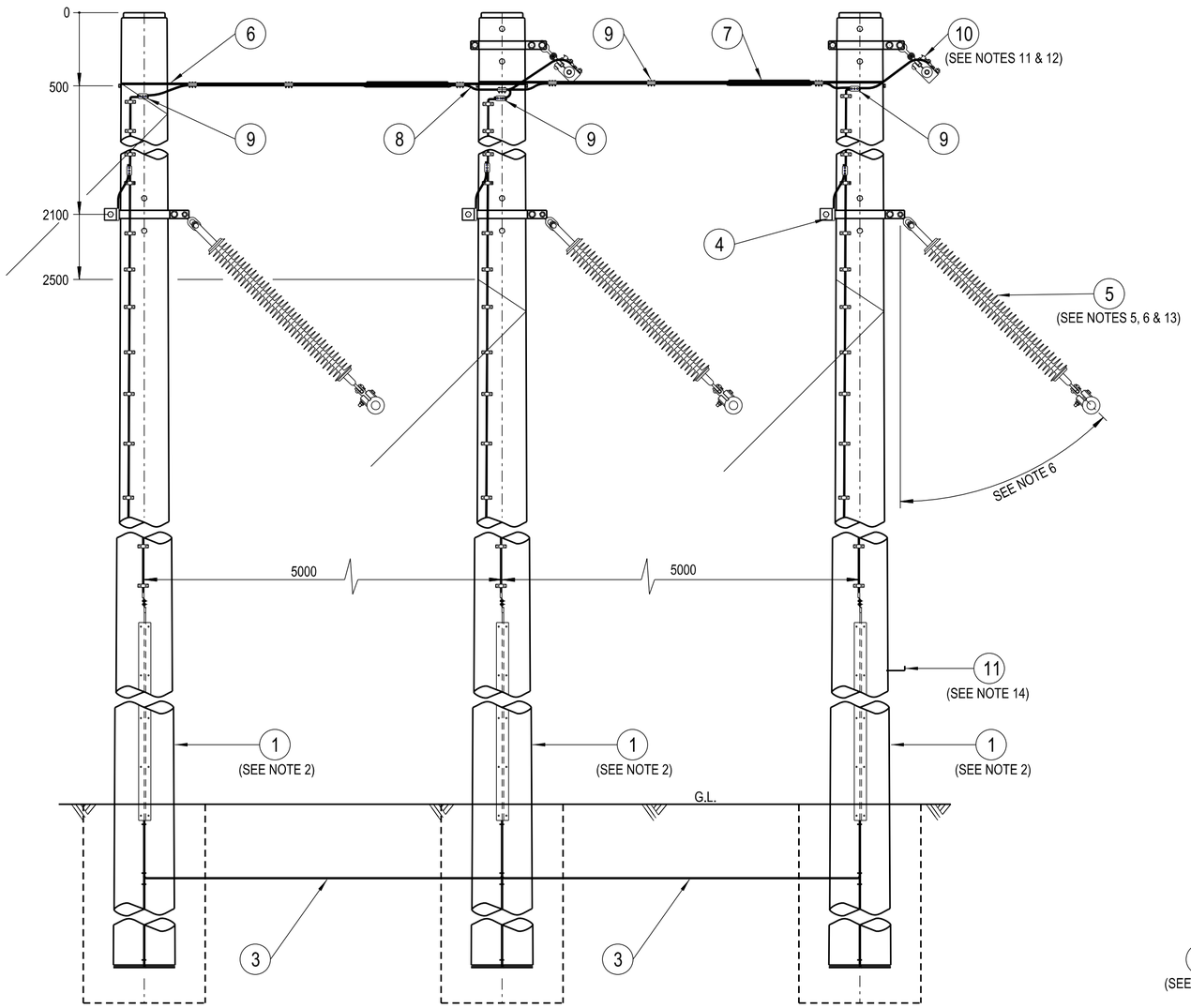

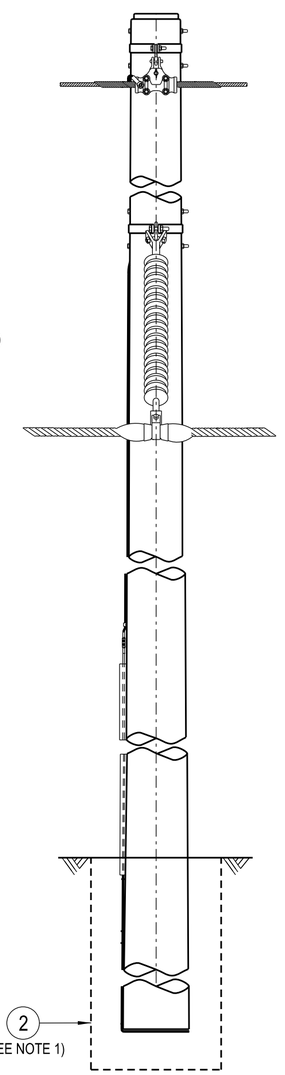

NOTE :

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 POLE TOP STAY WIRE IS HORIZONTAL.
3. THE INTER-POLE EARTH BONDING LEAD IS TO BE CONTINUOUS AND ATTACHED TO THE OHEW EARTHING SYSTEM AT THE HEAD OF EACH POLE. THE INTER-POLE EARTH BONDING LEAD IS ALSO ATTACHED TO THE POLE TOP STAY WIRE USING PARALLEL GROOVE CLAMPS AS SHOWN.
4. STAYS TO BE INSTALLED SO THAT THE STAYWIRE CLEARANCE FROM THE PHASE CONDUCTORS COMPLIES WITH THE STATUTORY REQUIREMENTS.
5. LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
6. A MINIMUM INSULATOR RADIAL SWING ANGLE MUST BE MAINTAINED TO ENSURE THE MINIMUM 132kV PHASE TO EARTH CLEARANCE OF 1.3m IS OBSERVED.
7. THE OVERHEAD EARTHWIRE DOWN LEAD IS TO BE FIXED TO THE POLE SO AS TO GIVE THE MAXIMUM CLEARANCE TO THE NEAREST PHASE CONDUCTOR.
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.
11. ONLY THE OPGW OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
12. USE THE OPGW SUSPENSION ARRANGEMENT WHEN ERECTING AN OPGW OVERHEAD EARTHWIRE.
    USE THE STANDARD EARTHWIRE SUSPENSION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
13. THE LONGROD INSULATOR SHOWS A SINGLE ARMOR-GRIP SUSPENSION UNIT ATTACHED TO THE CONDUCTOR. A SINGLE ARMOR-GRIP SUSPENSION UNIT ALLOWS A LINE DEVIATION ANGLE UP TO 30°. FOR LINE DEVIATION ANGLES BETWEEN 30° AND 60°, A DOUBLE ARMOR-GRIP SUSPENSION UNIT IS TO BE USED.
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 NS128.
15. REFER TO DESIGNER SAFETY REPORT D25/156840 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	QTY
11	STEP - POLE, SCREW-IN (SEE NOTE 14)	250144	A/R
10	EARTHWIRE - SUSPENSION, OVERHEAD, MOUNTING, ARRANGEMENT -2 (SEE NOTES 11 & 12)	514157	2
	OPGW - SUSPENSION, CONDUCTOR, MOUNTING, ARRANGEMENT -2 (SEE NOTES 11 & 12)	565744	
9	CLAMP - PARALLEL GROOVE, 3 BOLT	514099	10
8	CONDUCTOR - MERCURY, 7/4.5AAC (S/C: H13433)		14m
7	SPLICE - FULL TENSION, PREFORMED, FOR 19/2.00mm GALVANISED STEEL WIRE	514098	2
6	WIRE - STAY, 19/2.00mm, STEEL, GALVANISED (S/C: H10485)		26m
5	INSULATOR - LONGROD, 132kV, POLYMERIC STRING, ARRANGEMENT -4 (SEE NOTES 5, 6 & 13)	520314	3
4	BAND - POLE, MOUNTING AND BONDING, ARRANGEMENT -5	514158	3
3	EARTHING - TIMBER, MULTIPLE POLE, ARRANGEMENT	520225	2
2	FOOTING - TIMBER POLE, ARRANGEMENT (SEE NOTE 1)	178123	3
1	POLE - TIMBER (AS REQUIRED) (SEE NOTE 2)	513988	3

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

CAD DRAWING
DO NOT MANUALLY AMEND

A. AMENDMENTS

6 — DWN: GARY HUGHES; CHKED: PHILLIP JONES; DATE: 28/10/2004 DRAWING NUMBER & BORDER UPDATED, DISCS CHANGED TO LONGRODS, OHEW CHANGED TO OPGW, NOTES AND MATERIAL LIST AMENDED. APPD by: GLENN FORD; DWN: P.R.; CHKD: P.J.; APPD: G.F.

7 — DATE: 15/07/2025 POLE STEPS, PG CLAMPS & SADDLES CHANGED, NOTES & MATERIAL LIST MODIFIED.

ASSOCIATED DRAWINGS

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:25
DESIGNED	E.C
DRAWN	P.S.
CHECKED	P.A.S.
APPROVED	G SKINNER
DATE	06/01/97
PROJECT NUMBER	STD
PROJTRAK NUMBER	

STANDARD CONSTRUCTION
132kV HORIZONTAL FLYING ANGLE CONSTRUCTION WITH OVERHEAD EARTHWIRE
WP-BC

SIZE A2 | DRAWING No 507778 | SHEET 1 | AMD 7

20110901

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