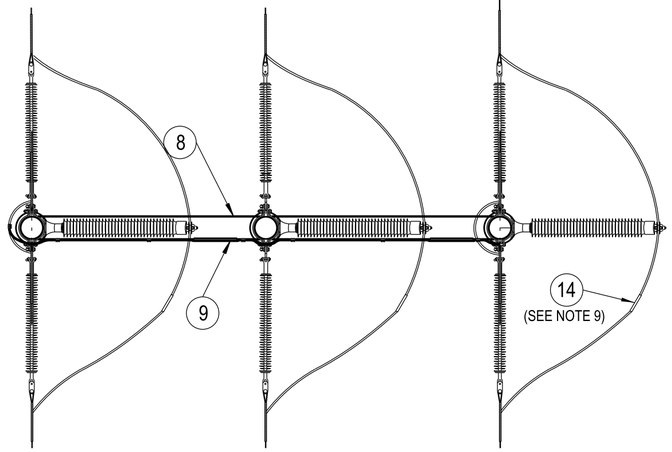

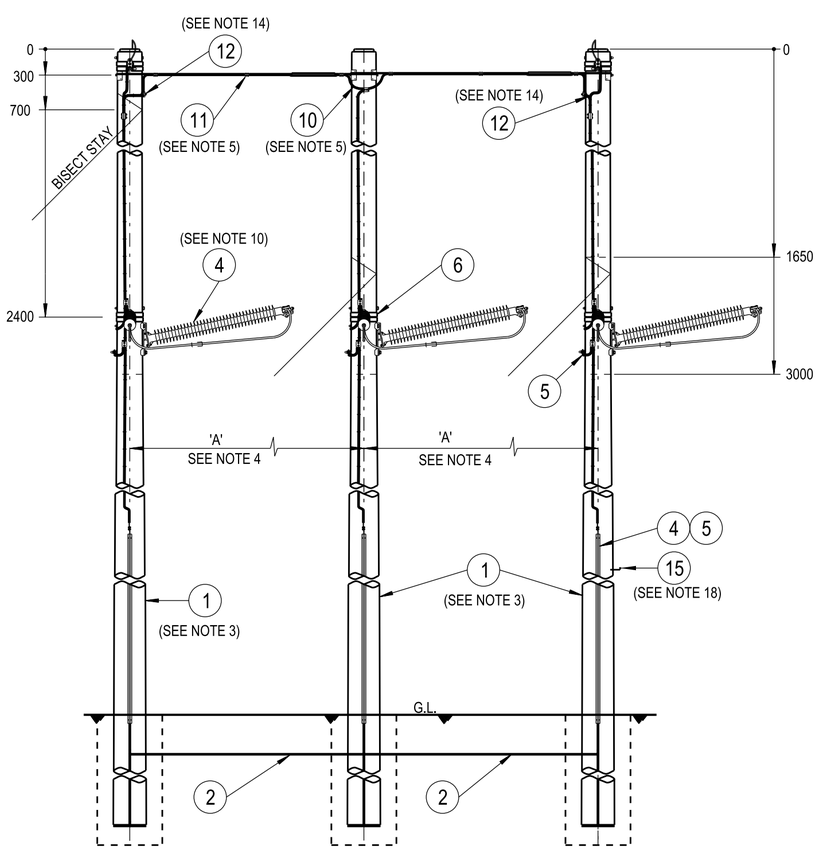

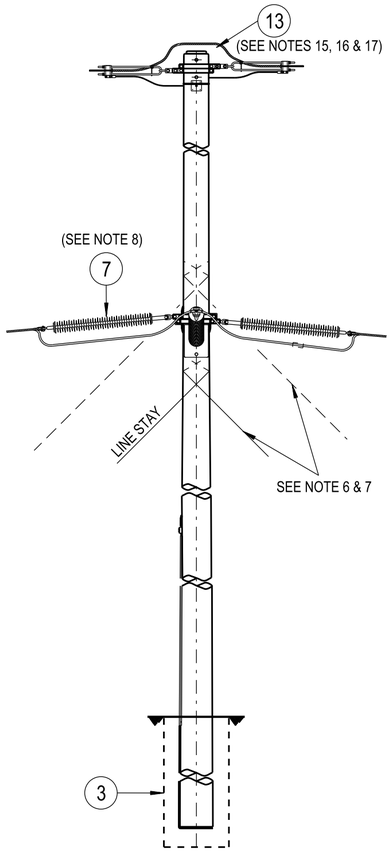

NOTES :

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.
   h. DESIGNED POLE CENTRE SEPARATION (DIMENSION 'A')
2. THIS STRUCTURE IS USED FOR LINE DEVIATION ANGLES LESS THAN 65°.
3. 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.
4. THE LINE DESIGNER IS TO SPECIFY THE POLE CENTRE SEPARATION (DIMENSION 'A') HAVING REGARD FOR THE MID SPAN CLEARANCE REQUIREMENTS AND THE LINE DEVIATION ANGLE. THE POLES ARE TO BE ERECTED WITH A MINIMUM POLE CENTRE SEPARATION OF 4400mm.
5. 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 TO ALSO ATTACH TO THE POLE TOP STAY WIRE USING PARALLEL GROOVE CLAMPS AS SHOWN.
6. THE LINE STAYS ARE DESIGNED TO HOLD THE INLINE TENSIONS AND NOT THE STRUCTURES RADIAL LOAD. IF THE RADIAL LOAD IS EXCESSIVE THEN A BISECT STAY MUST BE USED.
7. STAYS TO BE INSTALLED SO THAT THE STAYWIRE CLEARANCE FROM THE PHASE CONDUCTORS COMPLIES WITH THE STATUTORY REQUIREMENTS.
8. LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
9. NON-TENSION COMPRESSION JOINTS TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
10. LINE POST INSULATORS ARE TO BE FITTED WHERE LINE DEVIATION IS LESS THAN 90°.
11. ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
12. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
13. THE EARTHING DOWN LEAD IS TO BE FIXED TO THE POLE WITH STAPLES AT INTERVALS NOT GREATER THAN 450mm. ONLY SUFFICIENT INSULATION IS TO BE REMOVED FROM THE DOWN LEAD TO MAKE AN EFFECTIVE EARTH CONNECTION.
14. BI-METALLIC PARALLEL GROOVE CLAMP TO BE INSTALLED WITH COPPER CONDUCTOR BELOW ALUMINIUM CONDUCTOR SO THAT COPPER SALTS DO NOT WASH ONTO THE ALUMINIUM CONDUCTOR.
15. ONLY THE OPGW THROUGH TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
16. 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.
17. WHEN USING THE OPGW THROUGH SPLICE BOX TERMINATION ARRANGEMENT, REFER TO DRG : 565743 FOR SPLICE BOX AND COILED CABLE BRACKET MOUNTING DETAILS.
18. 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.

ITEM	DESCRIPTION	DRG.No.	QTY
15	STEP - POLE (SEE NOTE 18)	517698	A/R
14	JOINT - COMPRESSION, NON TENSION (TO SUIT CONDUCTOR) (SEE NOTE 9)	514053	3
13	EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -M2 OR M2A (SEE NOTES 15 & 16)	507794	2
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2C (SEE NOTES 15, 16 & 17)	565747	
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2A (SEE NOTES 15 & 16)	565747	
12	CLAMP - PARALLEL GROOVE, BI-METALLIC (S/C : H88013) (SEE NOTE 14)		2
11	CLAMP - PARALLEL GROOVE, 3-BOLT	514099	6
10	CONDUCTOR - MERCURY, 7/4.5 AAC (S/C: H13433)		15m
9	SPLICE - FULL TENSION, PREFORMED, FOR 19/2.00mm GALVANISED STEEL WIRE	514098	2
8	WIRE - STAY, 19/2.00mm, STEEL, GALVANISED (S/C: H10485)		26m
7	INSULATOR - LONGROD, 132kV, POLYMERIC STRING, ARRANGEMENT - 3 (SEE NOTE 8)	520314	6
6	BAND - POLE, MOUNTING & BONDING, ARRANGEMENT -4	514158	3
5	EARTHWIRE - OVERHEAD, DOWN LEAD, POLE HARDWARE, MOUNTING & BONDING, ARRANGEMENT -4	514145	3
4	INSULATOR - HORIZONTAL LINE POST, 132kV, MOUNTING & BONDING, ARRANGEMENT - 1	514161	3
3	FOOTING - TIMBER POLE, ARRANGEMENT (SEE NOTE 1)	508726	3
2	EARTHING - TIMBER, MULTIPLE POLE, ARRANGEMENT	520225	2
1	POLE - TIMBER, TYPE WP6 (AS REQUIRED)	507731	3

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

CAD DRAWING
DO NOT MANUALLY AMEND

AMENDMENTS
6 DRAWING NUMBER UPDATED. DRAWING BORDER UPDATED. DISCS CHANGED TO LONGRODS. NOTES & MATERIAL LIST AMENDED. OPGW SHOWN.

DWN: PATRICIA RIOS
CHKED: PHILLIP JONES
DATE: 09/01/2018
APPD by: DOMINIC SHIELDS

ASSOCIATED DRAWINGS	
OPGW CONDUCTOR SPLICE BOX & COILED CABLE BRACKET MTG ARRANGEMENT	565743

NETWORK STANDARD Ausgrid
145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:50
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 THREE POLE TERMINATION CONSTRUCTION
WITH TWIN OVERHEAD EARTHWIRE
WP-CB

SIZE A2 | DRAWING No 507781 | SHEET 01 | AMD 6

20110901