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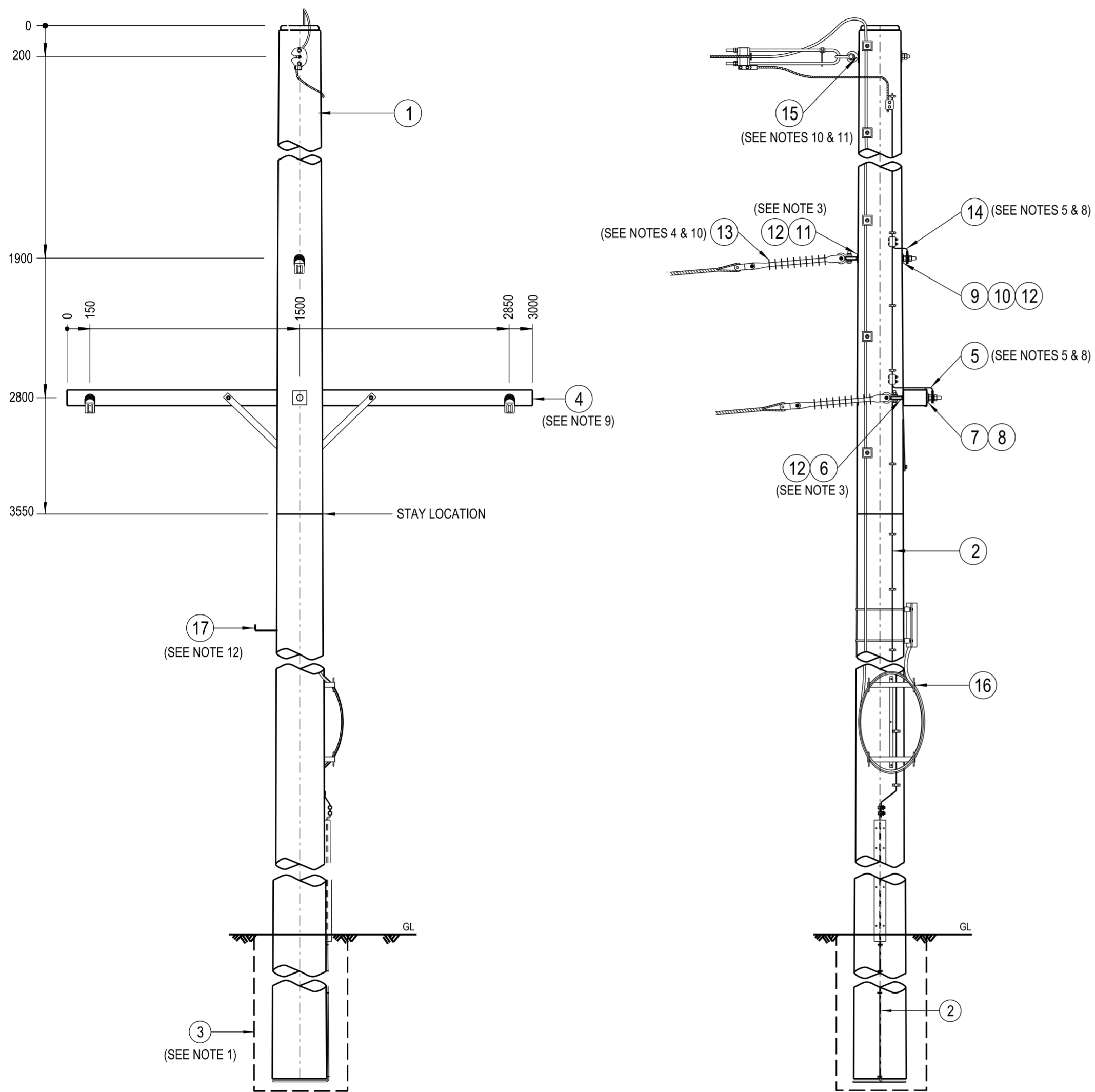
D

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. PHASE CONDUCTOR AND OVERHEAD EARTHWIRE SIZE.
  - e. VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
  - f. STAY REQUIREMENTS.
  - g. DEVIATION ANGLE.
  - h. ASSESSED EARTHING REQUIREMENTS.
2. 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.
3. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
4. LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
5. THE OVERHEAD EARTHWIRE DOWN LEAD IS TO BE FIXED TO THE POLE SO AS TO GIVE THE MAXIMUM CLEARANCE TO THE NEAREST PHASE CONDUCTOR.
6. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
7. ALL BOLTS AND EYEBOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
8. 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.
9. ONLY THE 3000mm STEEL CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRG: 237491 FOR DRILLING PATTERN OF ALTERNATE CROSSARM.
10. ONLY THE SINGLE PHASE CONDUCTOR WITH OPGW SPLICE BOX TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
11. USE THE OPGW SPLICE BOX TERMINATION ARRANGEMENT WHEN ERECTING AN OPGW OVERHEAD EARTHWIRE. USE THE STANDARD EARTHWIRE TERMINATION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
12. 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.
13. REFER TO DESIGNER SAFETY REPORT D22/283697 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.



17	STEP - POLE, SCREW-IN (SEE NOTE 12)	250144	A/R
16	OPGW - SPLICE BOX & COILED CABLE BRACKET, CONDUCTOR, MOUNTING ARRANGEMENT (USE WITH OPGW OHEW OPTIONS ONLY)	565743	1
15	EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -1B (SEE NOTES 10 & 11)	519450	1
	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -1B (SEE NOTES 10 & 11)	565747	
14	EARTHWIRE - OVERHEAD, DOWN LEAD, POLE HARDWARE, MOUNTING & BONDING , ARRANGEMENT -2 (SEE NOTES 5 & 8)	514145	1
13	INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 4 & 10)	250120	3
	INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 4 & 10)	158754	
12	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	4
11	EYEBOLT - M20, GALVANISED (LENGTH TO SUIT POLE) (SEE NOTE 3)	513653	1
10	WASHER - FLAT, M20, GALVANISED	518081	1
9	WASHER - CONICAL, M20, GALVANISED	518082	1
8	WASHER - SPRING, M20, GALVANISED	518082	2
7	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE) (USE WITH COMPOSITE CROSSARM)	518081	2
	WASHER - LIP, M24, GALVANISED (USE WITH STEEL CROSSARM)	518081	
6	EYEBOLT - M20x200mm, GALVANISED (SEE NOTE 3)	513653	2
5	EARTHWIRE - OVERHEAD, DOWN LEAD, POLE HARDWARE, MOUNTING & BONDING , ARRANGEMENT -3 (SEE NOTES 5 & 8)	514145	1
4	CROSSARM - MOUNTING ARRANGEMENT -1 (GALVANISED STEEL OR COMPOSITE FIBRE CROSSARM) (SEE NOTE 9)	514176	1
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

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

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS DWN: GARY HUGHES CHKD: GARY CRAIG DATE: 14/10/2013 AUSGRID BORDER APPLIED.	APP'D by: GLENN FORD 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.	COMPOSITE FIBRE CROSSARMS SPECIFICATION	237491
			20mm EYEBOLT LOADING AND DEVIATION GRAPH	520324
ASSOCIATED DRAWINGS				

<p>NETWORK STANDARD Ausgrid 145 NEWCASTLE RD WALLSEND, NSW 2287</p>	SCALE	1:25	STANDARD CONSTRUCTION 33kV DELTA TERMINATION CONSTRUCTION WITH OVERHEAD EARTHWIRE 4-25E
	DESIGNED	PHIL JONES	
	DRAWN	P.RIOS	
	CHECKED	PHIL JONES	
	APPROVED	STEPHEN CONNOR	
DATE	20/12/2007	PROJECT NUMBER	STD
PROJ/TRAK NUMBER	-	SIZE	A2
		DRAWING No	174245
		SHEET	1
		AMD	2