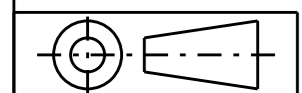


NOTE :

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 EARTH WIRE 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 STAPLES 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.
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. 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. 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
12	STEP - POLE (SEE NOTE 15)	517698	A/R
11	EARTHWIRE - SUSPENSION, OVERHEAD, MOUNTING, ARRANGEMENT -2 (SEE NOTES 11 & 12)	514157	2
	OPGW - SUSPENSION, CONDUCTOR, MOUNTING, ARRANGEMENT -2 (SEE NOTES 11 & 12)	565744	
10	CLAMP - PARALLEL GROOVE, 3 BOLT	514099	7
9	CONDUCTOR - MERCURY, 7/4.5AAC (S/C: H13433)		14m
8	CLAMP - PARALLEL GROOVE, BI-METALLIC (S/C: H88013) (SEE NOTE 14)		3
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 & BONDING, ARRANGEMENT -5	514158	3
3	FOOTING - TIMBER POLE, ARRANGEMENT (SEE NOTE 1)	508726	3
2	EARTHING - TIMBER, MULTIPLE POLE, ARRANGEMENT	520225	2
1	POLE - TIMBER, TYPE WP-4 (AS REQUIRED)	507729	3

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



CAD DRAWING
DO NOT MANUALLY AMEND
AMENDMENTS
DWN: GARY HUGHES
CHKD: 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: DOMINIC SHIELDS



145 NEWCASTLE RD WALLSEND,
NSW 2287

SCALE	1:25	STANDARD CONSTRUCTION		
DESIGNED	E.C	132kV HORIZONTAL FLYING		
DRAWN	P.S.	ANGLE CONSTRUCTION		
CHECKED	P.A.S.	WITH OVERHEAD EARTHWIRE		
APPROVED	G SKINNER	WP-BC		
DATE	06/01/97	SIZE	DRAWING No	SHEET
PROJECT NUMBER	STD	A2	507778	01
PROJTRAK NUMBER				AMD
				6

ASSOCIATED DRAWINGS