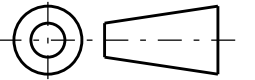


**NOTES :**

1. THE FOLLOWING INFORMATION IS OBTAINED FROM THE CONSTRUCTION SCHEDULE :
  - a. POLE LENGTH AND STRENGTH.
  - b. SPECIAL FOUNDATION REQUIREMENTS.
  - c. POLE EMBEDMENT DEPTH.
  - d. PHASE CONDUCTOR AND OVERHEAD EARTH WIRE SIZE.
  - e. VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
  - f. STAY REQUIREMENTS.
  - g. DEVIATION ANGLE.
  - h. ASSESSED EARTHING REQUIREMENTS.
2. ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
3. 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.
4. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
5. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
6. THE EARTHING DOWN LEAD IS TO BE FIXED TO THE POLE WITH STAPLES AT INTERVALS OF NOT GREATER THAN 450mm. THE CONNECTION OF THE DOWN LEAD TO THE CROSSARM WILL BE BY AN EARTH CLIP. ONLY SUFFICIENT INSULATION WILL BE REMOVED FROM THE DOWN LEAD TO MAKE AN EFFICIENT TERMINATION.
7. IF THE CONDUCTOR DEVIATES AT THE INSULATOR, USE THE ANGLE TYPE CONDUCTOR TIE ARRANGEMENT, OTHERWISE USE THE INTERMEDIATE TYPE CONDUCTOR TIE ARRANGEMENT AS SHOWN ON DRG : 514038.
8. 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.
9. USE THE 33/920 AERODYNAMIC PIN INSULATOR ARRANGEMENT WHERE THE CONSTRUCTION IS LOCATED WITHIN 1km OF THE COAST OR IN A VERY HIGH POLLUTION AREA.

17	WASHER - CONICAL, M20, STAINLESS STEEL	518082	2
16	EARTHWIRE - OVERHEAD, SUSPENSION ARR. -1B	514157	1
15	CROSSARM - 1350x100x100mm, TYPE D, HARDWOOD OR LAMINATED VENEER	514375	1
14	TIE - CONDUCTOR, HIGH VOLTAGE, SUPPORT ARRANGEMENT	514038	4m
13	INSULATOR - 33kV AERODYNAMIC, (33/920) AND PIN ARRANGEMENT	514006	3
	INSULATOR - 33kV AERODYNAMIC, (33/710) AND PIN ARRANGEMENT	513998	3
12	EARTHWIRE - OVERHEAD, DOWN LEAD POLE HARDWARE MOUNTING & BONDING ARR. -4	514145	2
11	BLOCK - GAIN, ALUMINIUM, 100mm (S/C 146274)		2
10	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	4
9	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466	2
8	WASHER - CONICAL, M12, STAINLESS STEEL	518082	4
7	WASHER - FLAT, M12, GALVANISED	518081	4
6	BOLT & NUT - M12x130mm, HEX., GALVANISED	515466	4
5	CROSSARM - 2700x100x100mm, TYPE B, HARDWOOD OR LAMINATED VENEER	514373	1
4	SCREW - COACH, M12x100mm, GALVANISED (S/C H40484)		2
3	BRACE - CROSSARM, FLAT, 690mm, GALVANISED	514385	4
2	EARTHING - ARRANGEMENT, TIMBER POLE STRUCTURE, TYPE SE-M5	508786	1
1	POLE - TIMBER (AS REQUIRED)	513988	1
ITEM	DESCRIPTION	DRG.No.	QTY



DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. DO NOT SCALE.

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS	DWN: PATRICIA RIOS	APPD by: GLENN FORD
	CHKD: PHILLIP JONES	DWN: GARY HUGHES
DATE: 22/12/2010	CHKD: GARRY CRAIG	DWN: GARY HUGHES
SECOND BRACE ADDED TO TOP CROSSARM. NOTES AMENDED.	DATE: 14/10/2013	CHKD: GARRY CRAIG
	AUSGRID BORDER APPLIED.	APPD by: GLENN FORD

NETWORK STANDARD

145 NEWCASTLE ROAD  
WALLSEND NSW 2287  
PHONE: 02 4951 9388  
FAX: 02 4951 9389

DESIGNED	PHIL JONES
DRAWN	PATRICIA RIOS
CHECKED	PHIL JONES
AUTHORISED	STEPHEN CONNOR
DATE	20/12/07
SCALE	1:25
MAP REF.	
LGA	
PROJECT No.	STD
PROJTRAK No.	-

<b>STANDARD CONSTRUCTION 33kV DELTA CONSTRUCTION WITH SUSPENDED OVERHEAD EARTHWIRE 4-35E</b>			
SIZE <b>A3</b>	DRAWING No <b>174427</b>	SHEETS 01 of 1	AMD. 2