



- NOTES :**
- THE FOLLOWING INFORMATION IS OBTAINED FROM THE CONSTRUCTION SCHEDULE :
 - POLE LENGTH AND STRENGTH.
 - SPECIAL FOUNDATION REQUIREMENTS.
 - POLE EMBEDMENT DEPTH.
 - PHASE CONDUCTOR AND OVERHEAD EARTH WIRE SIZE.
 - VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
 - STAY REQUIREMENTS.
 - DEVIATION ANGLE.
 - ASSESSED EARTHING REQUIREMENTS.
 - ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
 - 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.
 - THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
 - THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG : 520324.
 - POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
 - EYEBOLTS ARE TO BE INSTALLED IN THE DIRECTION OF THE OVERHEAD CONDUCTORS.
 - 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.
 - 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.
 - 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.
 - 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.

17	WASHER - CONICAL, M20, STAINLESS STEEL	518082	2
16	EARTH WIRE - OVERHEAD, TERMINATION ARR. -1A OR -1B	519450	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	EARTH WIRE - 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

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

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

NETWORK STANDARD

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

DESIGNED	-
DRAWN	PETER SAUNDERS
CHECKED	P.A.S
AUTHORISED	I.NICHOLS
DATE	29/07/94
SCALE	1:20
MAP REF.	
LGA	
PROJECT No.	STD
PROJTRAK No.	-

**STANDARD CONSTRUCTION
33kV DELTA CONSTRUCTION WITH
OVERHEAD EARTH WIRE
TERMINATION
4-9E**

SIZE	DRAWING No	SHEETS	AMD.
A3	520270	01 of 1	6