



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. CONDUCTOR SIZE.
  - e. VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
  - f. STAY REQUIREMENTS.
  - g. DEVIATION ANGLE.
2. ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
3. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
4. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
5. NON-TENSION COMPRESSION SLEEVES TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
6. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS125.
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 : 514.04.4.
8. THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
9. DIMENSIONS 'A', 'B' & 'C' WILL VARY DEPENDING ON WIDTH OF CROSSARM
- 10a. THE BONDS' CURRENT RATING MUST BE EQUAL OR EXCEEDING THE RATING OF THE MAINS BONDED (IF MIXED MAINS, THE RATING MUST EQUAL OR EXCEED THAT OF THE HIGHEST RATED MAINS)
- 10b. WHEN BARE BONDING COPPER MAINS USE EITHER:
  - INSULATED COPPER CONDUCTORS (70 or 90 or 120 sqmm) MATCHING THE BARE MAINS, OR
  - SUITABLE BARE COPPER (MAINS TAILS CAN BE USED) IN FLEXIBLE UV STABLE CONDUIT (A DIAGONAL WEEPHOLE MUST BE CUT AT ITS LOWEST POINT TO ALLOW WATER DRAINAGE), WITH SPLIT BOLT CONNECTORS (C or D TYPE).
- 10c. WHEN BONDING BARE ALUMINIUM MAINS USE EITHER
  - ALUMINIUM BARE CONDUCTORS (TAILS CAN BE USED) IN FLEXIBLE UV STABLE CONDUIT (A DIAGONAL WEEPHOLE MUST BE CUT AT ITS LOWEST POINT TO ALLOW WATER DRAINAGE), WITH PG CLAMPS OR,
  - ABC WITH IPCs AS FOLLOWS:
    - FOR MAINS UP TO 50 sqmm (i.e. LIBRA OR FLUORINE - 7/3.00), USE MINIMUM ABC95
    - FOR MAINS UP TO 77 sqmm (i.e. MARS or HELIUM - 7/3.75), USE MINIMUM ABC150
    - FOR MAINS UP TO 110 sqmm (i.e. MERCURY or HYDROGEN - 7/4.50), USE MINIMUM DOUBLE ABC95
    - FOR MAINS ABOVE 110 sqmm USE MINIMUM DOUBLE ABC150
- 10d. WHEN BONDING MIXED MAINS (COPPER AND ALUMINIUM) USE EITHER:
  - COPPER CONDUCTORS, INSULATED (70 or 90 or 120 sqmm) OR BARE (MAINS TAILS CAN BE USED) IN FLEXIBLE UV STABLE CONDUIT (A DIAGONAL WEEPHOLE MUST BE CUT AT ITS LOWEST POINT TO ALLOW WATER DRAINAGE). USE SPLIT BOLT CONNECTORS (C - D TYPE) ON THE COPPER SIDE AND BI-METALLIC PG CLAMPS ON THE ALUMINIUM SIDE, IN A POSITION THAT THE COPPER CONDUCTOR IS ALWAYS LOCATED BELOW THE ALUMINIUM ONE, OR
  - TINNED COPPER, INSULATED (70 or 90 or 120 sqmm) OR BARE CONDUCTORS IN FLEXIBLE UV STABLE CONDUIT (A DIAGONAL WEEPHOLE MUST BE CUT AT ITS LOWEST POINT TO ALLOW WATER DRAINAGE). USE SPLIT BOLT CONNECTORS (C or D TYPE) ON THE COPPER SIDE AND BI-METALLIC NON-TENSION SLEEVE FOR THE ALUMINIUM CONDUCTOR, OR
  - AERIAL BUNDLED CABLES (95 or 150 DEPENDING OF THE RATING) WITH APPROPRIATE IPCs (BI-METALLIC ON THE CU/ABC SIDE, NORMAL IPCs ON THE BARE AL/ABC SIDE)
- 10e. WHERE THERE IS AN UNDERSLUNG LINK / FUSE OR A LINK BOX USE ABC OF APPROPRIATE CROSS SECTION FOR THE BOND FROM THE MAINS TO THE SWITCH / BOX
11. STOCKCODES FOR FLEXIBLE UV STABLE CONDUIT:
  - 13mm (ID) GREY PLASTIC - 176565
  - 16mm (ID) GREY PLASTIC - 176564
  - 20mm (ID) GREY PLASTIC - 176566

20	PG CLAMP / C-D TYPE CONNECTOR			A/R
19	CABLE TIE (UV RESISTANT)			A/R
18	STEP - POLE (SEE NOTE 6)	517698	63198	A/R
17	BOLT & NUT - M12 150mm, HEX, GALVANISED		48647	4
16	INSULATED LV BOND (TO SUIT MAIN CONDUCTOR)	NOTE 10 & 11		4
15	BOLT & NUT - M16x130mm, HEX., GALVANISED	515466	46805	8
14	BRACKET - MOUNTING, LV FLAT SHACKLE, GALVANISED	514379	59774	16
13	INSULATOR - SHACKLE, REEL, TYPE SH.LV2	514407	75812	8
12	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		8
11	BLOCK - GAIN, ALUMINIUM, 100mm		146274	1
10	WASHER - CONICAL, M20, STAINLESS STEEL	518082	146316	1
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	146324	2
8	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		1
7	WASHER - CONICAL, M12, STAINLESS STEEL	518082	179601	2
6	WASHER - FLAT, M12, GALVANISED	518081	177982	2
5	BOLT & NUT - M12x180mm, HEX., GALVANISED	515466	46888	2
4	CROSSARM, HARDWOOD (SEE NOTE 9)	SEE NOTE 9		1
3	SCREW - COACH, M12x90mm, GALVANISED		50443	1
2	BRACE - CROSSARM, FLAT, 40x5x490mm, GALVANISED		76745	2
1	POLE (AS REQUIRED)	513988		1
ITEM	DESCRIPTION	DRG.NO	STOCK CODE	QTY

CAD DRAWING  
DO NOT MANUALLY AMEND  
AMENDMENTS  
1. ITEM 17 AMENDED.  
ITEMS 10, 14 & 15 STOCKCODE AMENDED  
P/N: PH01-02013-0-0-0  
DATE: 21-07-2014  
DRAWN: C.MABBOTT  
CHECKED: P.DI FELICE  
APPROVED: P.DI FELICE

NETWORK STANDARD  
**Ausgrid**  
ENGINEERING DIVISION  
PRIMARY SYSTEMS  
TRANSMISSION & DISTRIBUTION MAINS ENGINEERING  
25-27 POMEROY STREET, HOMEBUSH

SCALE	AS SHOWN
DESIGNED	N.BRYEN
DRAWN	N.BRYEN
CHECKED	P.DI FELICE
APPROVED	B.WOODS
DATE	05/06/2014
PROJECT NUMBER	
PROJTRAK NUMBER	

STANDARD CONSTRUCTION  
LV THROUGH TERMINATION  
1-11 (A)  
FOR MAINTENANCE AND LEGACY  
REPLACEMENTS ONLY

SIZE	DRAWING No	SHEET	AMD
A2	234378	1	1