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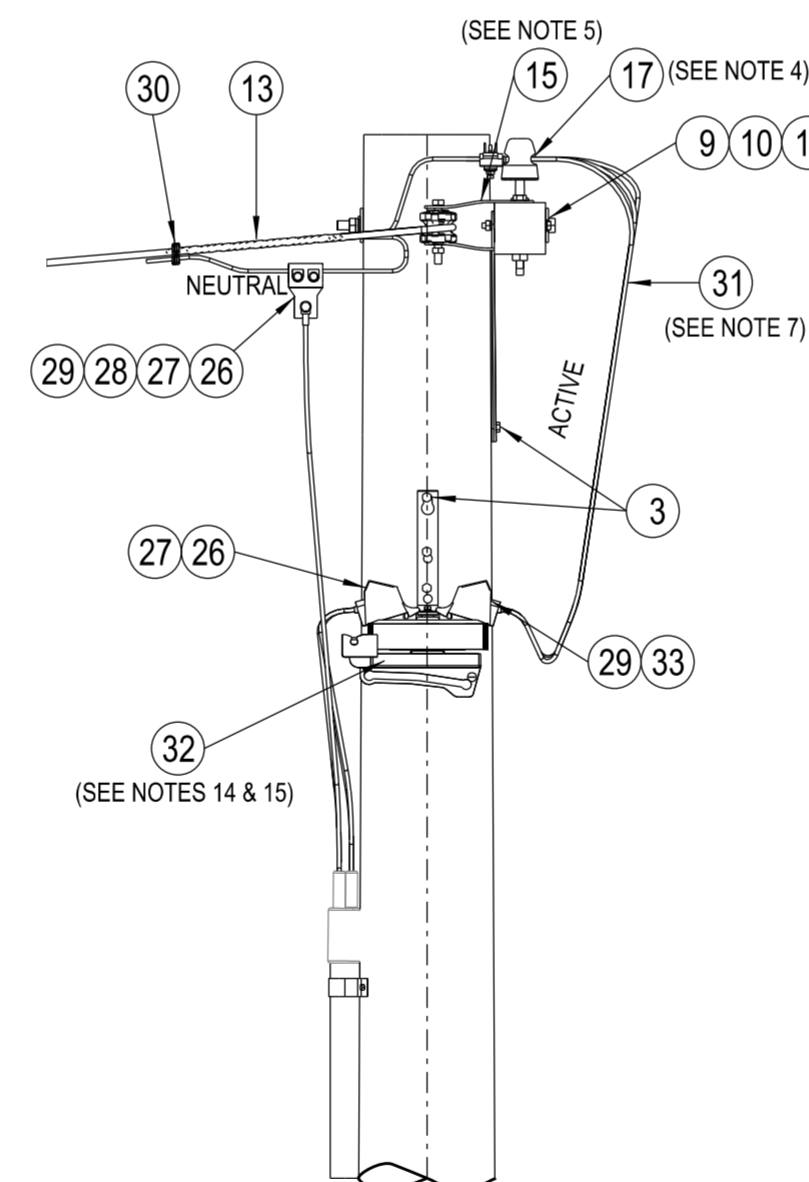
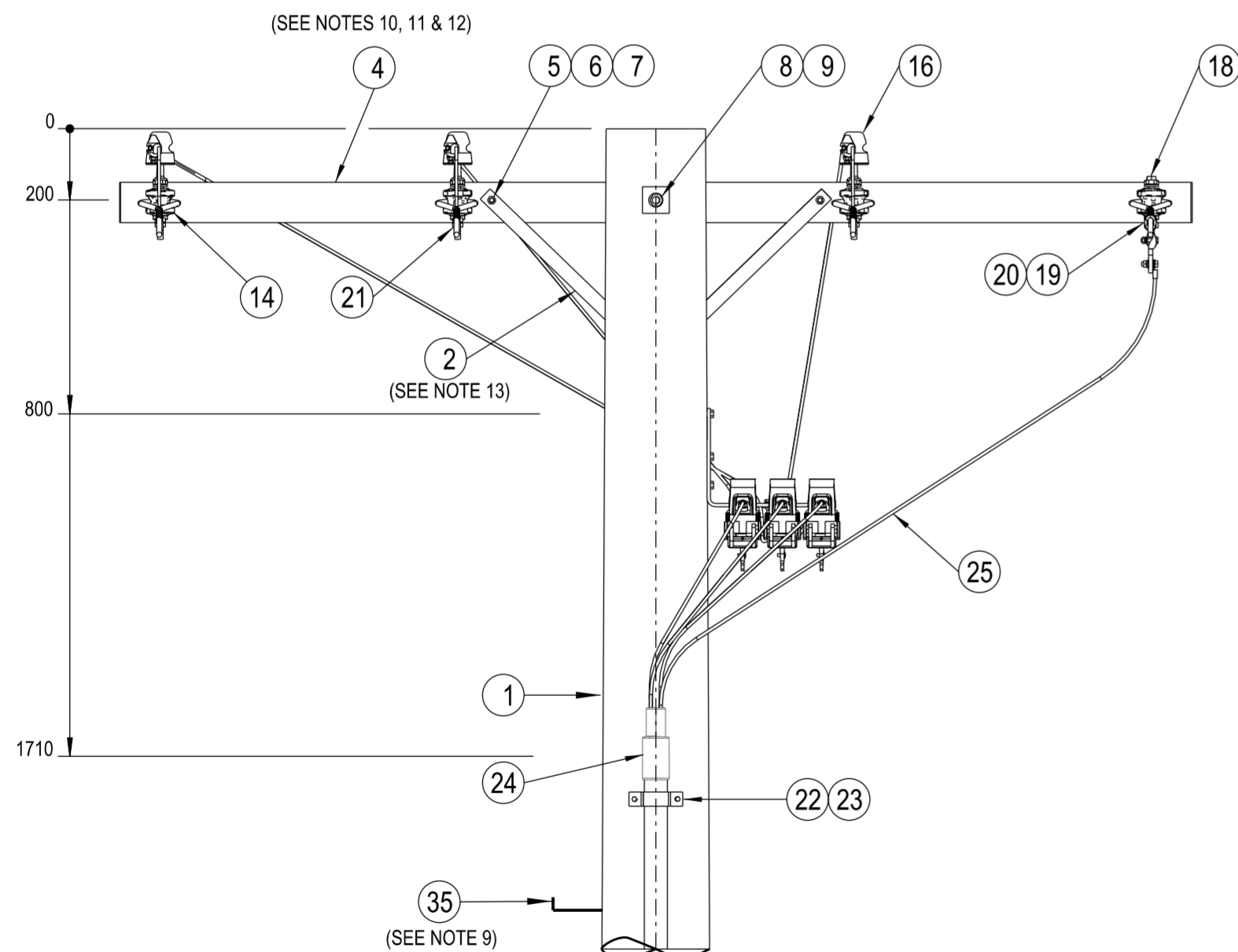
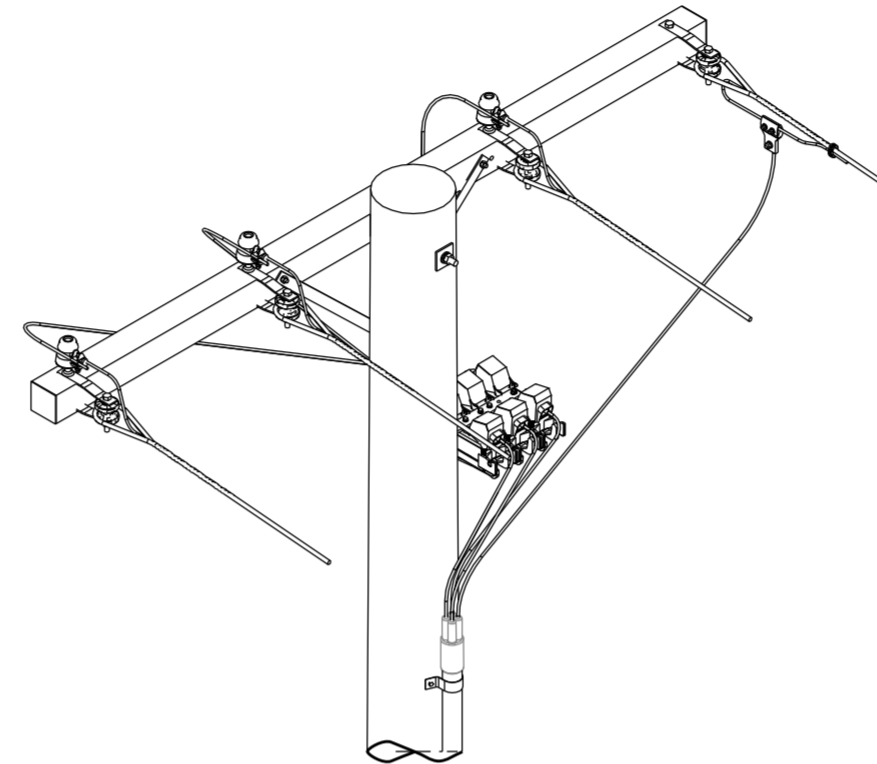
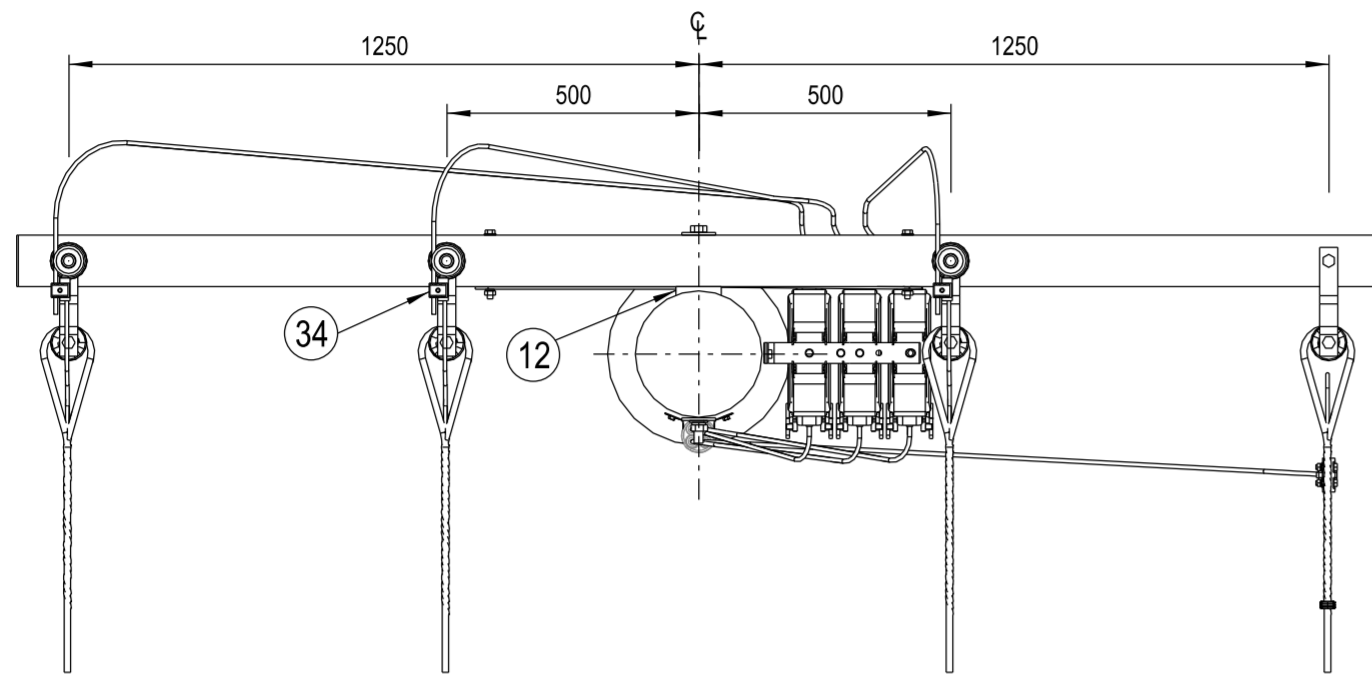
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**NOTES :**

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. CONDUCTOR SIZE.
  - e. CROSSARM SIZE AND BRACE REQUIREMENTS.
  - f. STAY REQUIREMENTS.
  - g. DEVIATION ANGLE.
2. ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
3. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
4. 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: 514044.

**NOTES (CONTINUED) :**

5. THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
6. THE MINIMUM LENGTH OF XLPE CABLE REQUIRED IS THE ABOVE GROUND POLE LENGTH TO THE CROSSARM KING BOLT PLUS 1.25m.
7. THE CABLE TAPPING IS TO BE INSTALLED WITH A LOOP AS SHOWN TO ALLOW MOISTURE TO DRAIN AWAY FROM THE CABLE CONNECTION TERMINALS.
8. FOR UNDERGROUND CABLE TERMINATIONS OTHER THAN XLPE, REFER TO DRG: 513908.
9. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
10. COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERRED OPTION UNDER NORMAL CIRCUMSTANCES.
11. A 2706mm COMPOSITE FIBRE CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. FOR NARROW FEEDER ALIGNMENTS, A SHORTER CROSSARM MAY BE CONSIDERED TO OVERCOME DESIGN AND SITE CONSTRAINTS.
12. ONLY THE 2706mm COMPOSITE FIBRE CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 262732, 514373, 514374, 15233 & 237491 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
13. THE 690mm CROSSARM BRACES ARE TO BE USED ON A 2706mm, 2106mm, 2700mm, 2100mm & 2750mm CROSSARM. THE 490mm CROSSARM BRACES ARE TO BE USED ON A 2406mm & 2400mm CROSSARM.
14. THE LV ABC FUSE/LINK DISCONNECTOR KIT WILL COMPRISE THE FOLLOWING COMPONENTS:
  - 3 x KGH 400 SINGLE POLE FUSE/LINK SWITCHES
  - 3 x 400A CONNECTING LINKS
  - 1 x UNIVERSAL POLE MOUNTING BRACKET
15. IF THE CONNECTING LINKS ARE TO BE REPLACED WITH FUSE LINKS, CONTACT MAINS ENGINEERING FOR APPROVAL AND FUSE LINK SPECIFICATIONS.
16. REFER TO DESIGNER SAFETY REPORT D20/250351 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.



ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
35	STEP - POLE, SCREW-IN (SEE NOTE 9)	250144	185198	A/R
34	CONNECTOR - INSULATION PIERCING (TO SUIT CONDUCTOR)	520219		3
33	LUG - COMPRESSION, BI-METALLIC, PRE-INSULATED (TO SUIT CONDUCTOR)	514053		3
32	DISCONNECTOR - FUSE/LINK, LV ABC, KIT (SEE NOTES 14 & 15)		185818	1
31	CONDUCTOR - 7/4.5AAC (MERCURY), INSULATED, 660V (SEE NOTE 7)		H13441	A/R
30	TIE - WIRE (TO SUIT CONDUCTOR)	514044		A/R
29	TAPE - INSULATION, SPLICING, 19mm, SELF BONDING, SCOTCH 23		H16237	A/R
28	CLAMP - TEE, TINNED BRASS (FOR COPPER TO ALUMINIUM)		H110304	
	CLAMP - TEE (FOR ALUMINIUM TO ALUMINIUM)		H82677	1
27	LUG - COMPRESSION (TO SUIT U/G CABLE)	520150		4
26	TUBING - HEATSHRINK, THICK WALL, MASTIC LINED	520718	H109611	A/R
25	TUBING - HEATSHRINK, THIN WALL, BLACK (TO SUIT U/G CABLE)	520718		A/R
24	GLOVE - HEATSHRINK, FOUR FINGER (TO SUIT U/G CABLE)	520718		1
23	SCREW - COACH, M12 x 90mm, GALVANISED		50443	A/R
22	SADDLE - POLE RADIUS (TO SUIT U/G CABLE)	513972		A/R
21	BOLT & NUT - M16x130mm, HEX., GALVANISED	515466	46979	4
20	WASHER - FLAT, M16, GALVANISED	518081	177984	1
19	WASHER - CONICAL, M16, GALVANISED (USE WITH 2700mm, 2400mm & 2100mm CROSSARMS)	518082	H39647	1
	WASHER - SPRING, M16, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm & 2750mm CROSSARMS)			1
18	BOLT & NUT - M16x160mm, HEX., GALVANISED (USE WITH 2750mm CROSSARM)	515466	47043	1
	BOLT & NUT - M16x150mm, HEX., GALVANISED (USE WITH 2706mm, 2406mm, 2106mm, 2700mm, 2100mm & 2400mm CROSSARMS)	515466	175672	1
17	TIE - CONDUCTOR, LOW VOLTAGE, SUPPORT ARRANGEMENT (SEE NOTE 4)	514044		4m
16	INSULATOR - LV (LPLV PATTERN 'B') & PIN ARRANGEMENT	513995		3
15	BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 5)	514379	H17762	8
14	INSULATOR - SHACKLE, REEL, TYPE SH LV2	514407	75812	4
13	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		4
12	BLOCK - GAIN, ALUMINIUM, 125mm (USE WITH 2750mm CROSSARM)		146282	
	BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2706mm, 2406mm, 2106mm, 2700mm, 2100mm & 2400mm CROSSARMS)		146274	1
11	WASHER - FLAT, M20, GALVANISED	518081	177986	1
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	1
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	2
8	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		1
7	WASHER - CONICAL, M12, GALVANISED (USE WITH 2700mm, 2400mm & 2100mm CROSSARMS)	518082	H39639	2
	WASHER - SPRING, M12, GALVANISED (USE WITH 2706mm, 2406mm, 2106mm & 2750mm CROSSARMS)	518082	H12047	2
6	WASHER - FLAT, M12, GALVANISED	518081	177982	4
	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm & 2750mm CROSSARMS)	515466	46847	
5	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2700mm & 2100mm CROSSARMS)	515466	46888	2
	BOLT & NUT - M12x130mm, HEX., GALVANISED (USE WITH 2706mm, 2406mm & 2106mm CROSSARMS)	515466	46805	
	CROSSARM - 2750x125x125mm, ITEM 1, COMPOSITE FIBRE (SEE NOTES 10, 11 & 12)	237491	183933	
	CROSSARM - 2400x125x100mm, TYPE LT3, HARDWOOD (SEE NOTES 10, 11 & 12)	15233	71746	
4	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 10, 11 & 12)	514374	H23745	1
	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 10, 11 & 12)	514373	H23892	
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 10, 11 & 12)	262732	186774	
	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 10, 11 & 12)	262732	186775	
	CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 10, 11 & 12)	262732	186776	
3	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	4
2	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 13)	46	76745	2
	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 13)	514385	H17738	
1	POLE - TIMBER (AS REQUIRED)	513988		1

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

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
	COMPOSITE FIBRE CROSSARM MECHANICAL LOAD REQUIREMENTS	237491		
	2700mm CROSSARMS FOR LV, 11kV, 22kV AND 33kV CONSTRUCTION DETAILS	514373		
	COMPOSITE FIBRE CROSSARMS SPECIFICATION	262732		
	2100mm CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS	514374		
	WOODEN CROSSARMS FOR 415V OVERHEAD MAINS	15233		
	LV TERMINATION CONSTRUCTION AND U/G CABLE WITH TERMINATION BOX & LINKS 1-106	513908		
	LV CONDUCTOR TIE AND SUPPORT ARRANGEMENTS	514044		
ASSOCIATED DRAWINGS				

NETWORK STANDARD

145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:15	STANDARD CONSTRUCTION
DESIGNED	-	LV TERMINATION CONSTRUCTION
DRAWN	PETER SAUNDERS	AND UNDERGROUND CABLE WITH HEATSHRINK
CHECKED	P.A.S	TERMINATION AND LINKS OR FUSES
APPROVED	I NICHOLS	
DATE	14 / 08 / 07	
PROJECT NUMBER	NET-STD	
PROJ/TRAK NUMBER	STD	
SIZE	A2	DRAWING No
	514071	SHEET
		1
		AMD
		13