



- NOTES :**
- THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS :
 - POLE LENGTH AND STRENGTH.
 - SPECIAL FOUNDATION REQUIREMENTS.
 - POLE EMBEDMENT DEPTH.
 - CONDUCTOR SIZE.
 - CROSSARM SIZE AND BRACE REQUIREMENTS.
 - STAY REQUIREMENTS.
 - DEVIATION ANGLE.
 - ASSESSED EARTHING REQUIREMENTS.
 - THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
 - POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS126.
 - IN AREAS WHERE THE 11kV NETWORK CANNOT BE WORKED ON USING LIVE LINE TECHNIQUES, UNDERBUILT CIRCUITS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 1200mm. IN AREAS WHERE THE 11kV NETWORK CAN BE WORKED ON USING LIVE LINE TECHNIQUES, UNDERBUILT CIRCUITS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 2500mm.
 - THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT AND EYENUT ASSEMBLY IS TO BE DETERMINED FROM DRG : 520331.
 - POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
 - ALL BOLTS AND INSULATOR PINS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
 - TO MAINTAIN THE INTEGRITY OF A COVERED SYSTEM, IT IS ESSENTIAL THAT ALL STRIPPED AND PUNCTURED INSULATION IS CONTAINED WITHIN THE APPROPRIATE INSULATING COVER.
 - CCT CONDUCTOR INSULATION SHALL ONLY BE REMOVED BY THE USE OF AN APPROVED CCT CONDUCTOR STRIPPING TOOL.
 - THE RATING OF THE FUSE ELEMENT IS TO BE SELECTED TO COMPLY WITH THE REQUIREMENTS OF TECHNICAL GUIDE T0024.
 - A 2700mm CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. FOR NARROW FEEDER ALIGNMENTS, A 2400mm CROSSARM MAY BE CONSIDERED TO OVERCOME DESIGN AND SITE CONSTRAINTS. A 3000mm STEEL CROSSARM IS TO BE USED WHEN THE MAXIMUM LOAD OF A TIMBER CROSSARM IS EXCEEDED.
 - ONLY THE 2700mm CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS : 15232 & 514377 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
 - THE 920mm CROSSARM BRACE IS TO BE USED ON A 2700mm & 3000mm CROSSARM. THE 740mm CROSSARM BRACE IS TO BE USED ON A 2400mm CROSSARM.
 - SURGE ARRESTERS ARE TO BE INSTALLED ON AN OVERHEAD CCT CONDUCTOR SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NS126. IF A SURGE ARRESTER IS TO BE INSTALLED ON THIS CONSTRUCTION, IT IS TO BE INSTALLED AS PER THE RELEVANT ARRANGEMENT SPECIFIED ON DRG: 177151.

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
29	STEP - POLE, SCREW-IN (SEE NOTE 3)	250144	185198	A/R
28	LUG - COMPRESSION (TO SUIT CONDUCTOR)	514053		6
27	FUSE - ELEMENT 11kV DROPOUT (FOR USE WITH FUSE HOLDER) (SEE NOTE 10)			3
26	LINK - ISOLATING, 12/24kV, OUTDOOR, SINGLE INSULATOR		58750	3
	FUSEHOLDER - BASE & CARRIER, 12/24kV EXPULSION DROPOUT, 150MVA, 8kA		H84350	
25	WASHER - SQUARE, 50x50x6mm, GALVANISED (Ø18mm HOLE)	518081	H39257	3
24	WASHER - CONICAL, M16, GALVANISED	518082	H39647	3
23	WASHER - FLAT, M16, GALVANISED	518081	177984	3
22	BOLT & NUT - M16x140mm, HEX., GALVANISED	515466	H37506	3
21	COVER - STRAIN CLAMP		144543	6
20	CLAMP - CONDUCTOR STRAIN, FOR CCT180		176313	6
	CLAMP - CONDUCTOR STRAIN, FOR CCT120		144527	
	CLAMP - CONDUCTOR STRAIN, FOR CCT80		144535	
19	INSULATOR - STRAIN ROD		144550	6
18	LINK - SAG, 70kN (PLP PART No.CTSLEW-070-1)		DIRECT PURCHASE	6
17	BLOCK - GAIN, ALUMINIUM, 100mm		146274	1
16	WASHER - FLAT, M20, GALVANISED (USE WITH 2400mm & 2700mm CROSSARMS)	518081	177986	2
15	WASHER - FLAT, M20, GALVANISED	518081	177986	1
14	EYENUT - M20, GALVANISED (SEE NOTE 5)	513951	H38853	3
13	WASHER - LIP, M24, GALVANISED	518081	176912	5
12	WASHER - SPRING, M20, GALVANISED (USE WITH 3000mm CROSSARM)	518082	175569	2
	WASHER - CONICAL, M20, GALVANISED (USE WITH 2400mm & 2700mm CROSSARMS)	518082	H39655	
11	EYEBOLT - M20x200mm, GALVANISED (SEE NOTE 5)	513653	H37881	2
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	1
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	1
8	EYEBOLT - M20, GALVANISED (LENGTH TO SUIT POLE) (SEE NOTE 5)	513653		1
7	WASHER - SPRING, M12, GALVANISED (USE WITH 3000mm CROSSARM)	518082	H12047	1
	WASHER - CONICAL, M12, GALVANISED (USE WITH 2400mm & 2700mm CROSSARMS)	518082	H39639	
6	WASHER - FLAT, M12, GALVANISED	518081	177982	2
5	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm CROSSARM)	515466	46847	1
	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2700mm & 3000mm CROSSARMS)	515466	46888	
4	CROSSARM - 3000x150x100x5mm, RHS, GALVANISED (SEE NOTES 11 & 12)	514377	H23787	1
	CROSSARM - 2400x125x100mm, TYPE H2, HARDWOOD (SEE NOTES 11 & 12)	15232	71910	
	CROSSARM - 2700x150x100mm, TYPE C, HARDWOOD (SEE NOTES 11 & 12)	514373	H23907	
3	SCREW - COACH, M12x100mm, GALVANISED		H40484	1
2	BRACE - CROSSARM, ANGLE, TYPE H, 740mm, GALVANISED (SEE NOTE 13)	46	99119	1
	BRACE - CROSSARM, ANGLE, 920mm, GALVANISED (SEE NOTE 13)	514381	H17283	
1	POLE - TIMBER (AS REQUIRED)	513988		1

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

CAD DRAWING
DO NOT MANUALLY AMEND
A M E N D M E N T S
DWN: PATRICIA RIOS
CHKD: PHILLIP JONES
DATE: 16/08/2019
M20 WASHER ADDED.
NOTES & MATERIAL LIST
UPDATED. SHEET SIZE
CHANGED.
APPD by: GLENN FORD

DESCRIPTION	DRG. No
11kV SURGE ARRESTER ARRANGEMENTS	177151
HV TERMINATION STEEL CROSSARM CONSTRUCTION DETAILS	514377
WOODEN CROSSARMS FOR 11kV LINES	15232
20mm EYEBOLT & EYENUT ASSEMBLY LOADING & DEVIATION GRAPH	520331

ASSOCIATED DRAWINGS

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND,
NSW 2287

SCALE	1:15	STANDARD CONSTRUCTION
DESIGNED	PHIL JONES	11kV THROUGH TERMINATION CONSTRUCTION WITH DROPOUT FUSES OR ISOLATING LINKS 2-60CCT
DRAWN	PATRICIA RIOS	
CHECKED	PHIL JONES	
APPROVED	STEPHEN CONNOR	
DATE	05/12/06	
PROJECT NUMBER	STD	
PROJ/TRAK NUMBER	-	
SIZE	A2	DRAWING No
		175886
		SHEET
		01
		AMD
		3