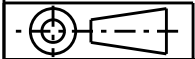


- NOTES :**
- THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS:
    - POLE LENGTH AND STRENGTH.
    - SPECIAL FOUNDATION REQUIREMENTS.
    - POLE EMBEDMENT DEPTH.
    - CONDUCTOR SIZE.
    - CROSSARM SIZE.
    - STAY REQUIREMENTS.
    - DEVIATION ANGLE.
  - THE MAXIMUM LINE DEVIATION 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 NS128.
  - 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.
  - ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
  - 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.
  - 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.
  - A 2100mm CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. A 3070mm COMPOSITE FIBRE OR 3000mm STEEL CROSSARM IS TO BE USED WHEN THE MAXIMUM LOAD OF A TIMBER CROSSARM IS EXCEEDED.
  - ONLY THE 2100mm CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 514377 & 237491 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
  - 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.
  - REFER TO DESIGNER SAFETY REPORT D25/132060 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

28	STEP - POLE, SCREW-IN (SEE NOTE 3)	250144	185198	A/R
27	COVER - PARALLEL, GROOVE CLAMP		144576	3
26	CLAMP - PARALLEL GROOVE, 2-BOLT		62414	3
25	WIRE - TIE, PREFORMED, INSULATED, CCT180		176312	1
	WIRE - TIE, PREFORMED, INSULATED, CCT120		144600	
	WIRE - TIE, PREFORMED, INSULATED, CCT80		144618	
24	WASHER - CONICAL, M16, GALVANISED	518082	H39647	1
23	WASHER - SQUARE, 50x50x6mm, GALVANISED (Ø18mm HOLE)	518081	H39257	1
22	INSULATOR - PIN POST, LONG STUD		145052	1
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)		PURCHASE	6
17	BLOCK - GAIN, ALUMINIUM, 125mm (USE WITH 3070mm CROSSARM)		146282	1
	BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2100mm & 3000mm CROSSARMS)		146274	
16	EYENUT - M20, GALVANISED (SEE NOTE 6)	513951	H38853	3
15	WASHER - FLAT, M20, GALVANISED (USE WITH 2100mm CROSSARM)	518081	177986	2
14	WASHER - FLAT, M20, GALVANISED	518081	177986	1
13	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE) (USE WITH 3070mm CROSSARM)	518081	H39231	2
	WASHER - LIP, M24, GALVANISED (USE WITH 2100mm & 3000mm CROSSARMS)	518081	176912	
12	WASHER - SPRING, M20, GALVANISED (USE WITH 3000mm & 3070mm CROSSARMS)	518082	175569	2
	WASHER - CONICAL, M20, GALVANISED (USE WITH 2100mm CROSSARM)	518082	H39655	
11	EYEBOLT - M20x200mm, GALVANISED (SEE NOTE 6)	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 6)	513653		1
7	WASHER - SPRING, M12, GALVANISED (USE WITH 3000mm & 3070mm CROSSARMS)	518082	H12047	2
	WASHER - CONICAL, M12, GALVANISED (USE WITH 2100mm CROSSARM)	518082	H39639	
6	WASHER - FLAT, M12, GALVANISED	518081	177982	4
5	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 3070mm CROSSARM)	515466	46847	2
	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2100mm & 3000mm CROSSARMS)	515466	46888	
4	CROSSARM - 3070x125x125mm, ITEM 3, COMPOSITE FIBRE (SEE NOTES 10 & 11)	237491	183935	1
	CROSSARM - 3000x150x100x5mm, RHS, GALVANISED (SEE NOTES 10 & 11)	514377	H23787	
	CROSSARM - 2100x150x100mm, TYPE H, HARDWOOD (SEE NOTES 10 & 11)	514374	H23745	
3	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	1
2	BRACE - CROSSARM, FLAT, 690mm, GALVANISED	514385	H17738	2
1	POLE - TIMBER (AS REQUIRED)	513988		1
ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY



ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.

DO NOT SCALE.

F	CAD DRAWING DO NOT MANUALLY AMEND										
	A M E N D M E N T S										
		DWN: PATRICIA RIOS									
	CHKD: PHIL JONES										
1	DATE: 03/09/2007 NOTE 4 AMENDED.										
APP'D by: STEPHEN CONNOR											
2	DWN: PATRICIA RIOS										
	CHKD: PHILLIP JONES										
	DATE: 16/08/2019 M20 WASHER ADDED. NOTES & MATERIAL LIST UPDATED. SHEET SIZE CHANGED.										
APP'D by: GLENN FORD											
	DWN: P.R.										
	CHKD: P.J.										
APP'D: G.F.											
3	DATE: 15/05/2025 NOTES & MATERIAL LIST AMENDED.										

11kV SURGE ARRESTER ARRANGEMENTS		177151
COMPOSITE FIBRE CROSSARM MECHANICAL LOAD REQUIREMENTS		237491
HV TERMINATION STEEL CROSSARM CONSTRUCTION DETAILS		514377
20mm EYEBOLT & EYENUT ASSEMBLY LOADING & DEVIATION GRAPH		520331
ASSOCIATED DRAWINGS		

NETWORK STANDARD

**Ausgrid**

42 HONEYSUCKLE DRIVE,  
NEWCASTLE WEST NSW 2300

SCALE	1:15	STANDARD CONSTRUCTION 11kV THROUGH TERMINATION CONSTRUCTION 2-11 CCT			
DESIGNED	PHILLIP JONES				
DRAWN	PATRICIA RIOS				
CHECKED	PHILLIP JONES				
APPROVED	STEPHEN CONNOR				
DATE	06/12/2006				
PROJECT NUMBER	STD				
TRIM REF NUMBER	-	SIZE <b>A2</b>	DRAWING No <b>174962</b>	SHEET <b>1</b>	REV <b>3</b>