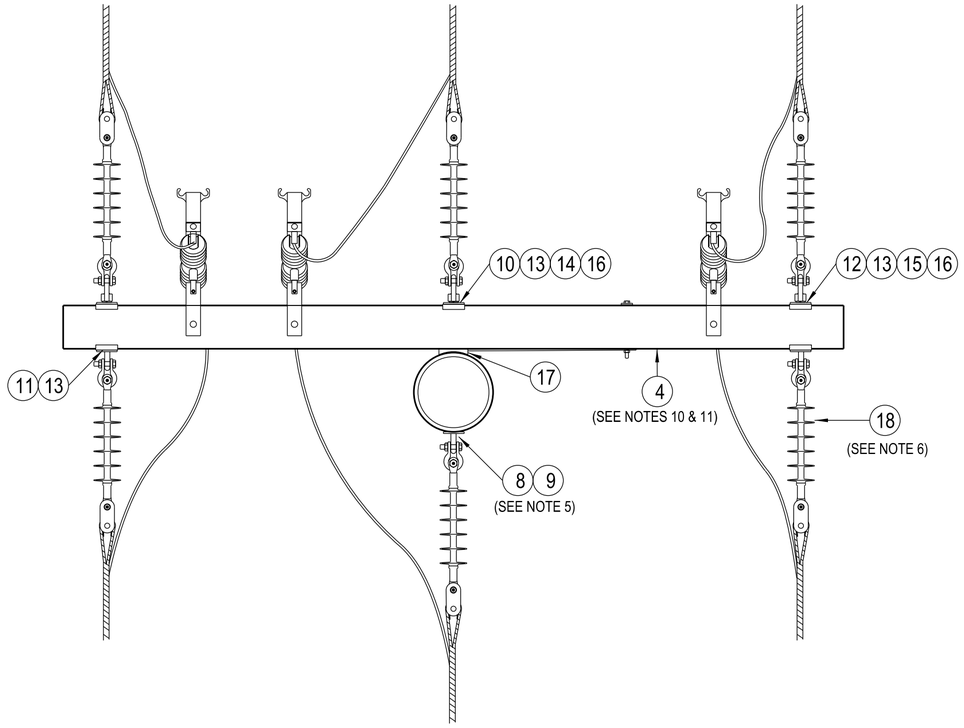

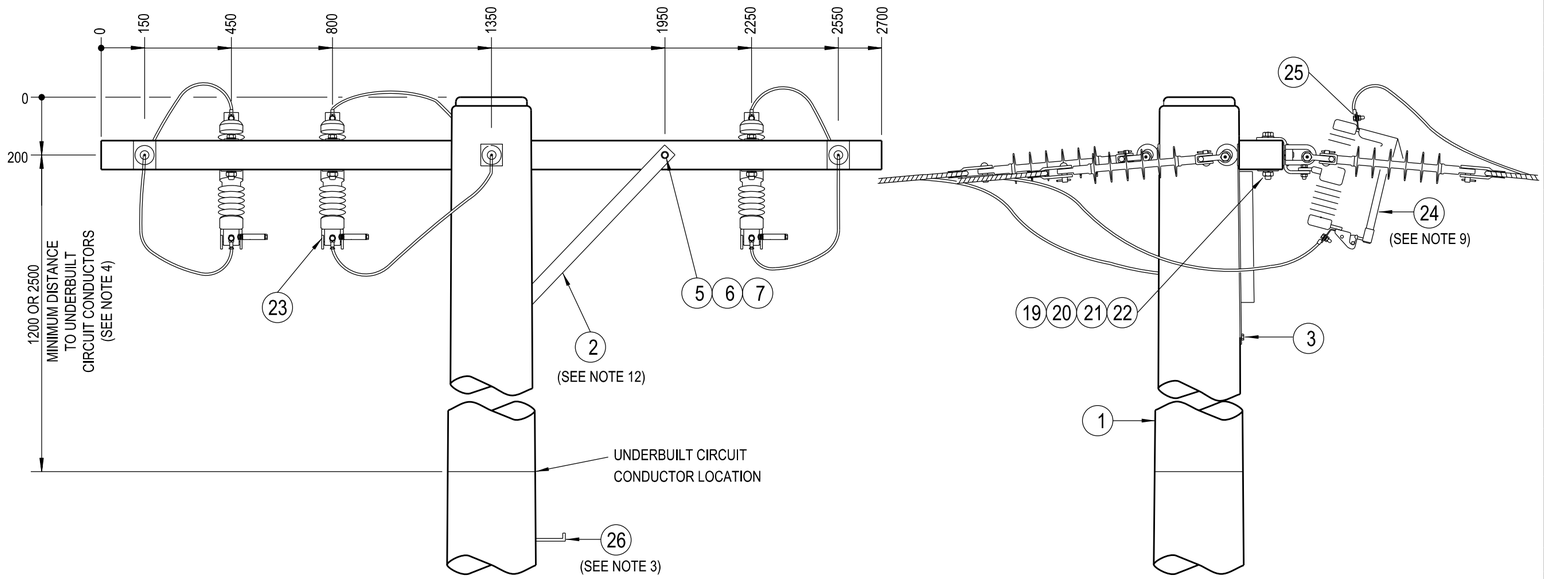

NOTES :

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.
   h. ASSESSED EARTHING REQUIREMENTS.
2. THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
3. POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
4. IN AREAS WHERE THE 22kV NETWORK CANNOT BE WORKED ON USING LIVE LINE TECHNIQUES, UNDERBUILT CIRCUITS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 1200mm. IN AREAS WHERE THE 22kV NETWORK CAN BE WORKED ON USING LIVE LINE TECHNIQUES, UNDERBUILT CIRCUITS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 2500mm.
5. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT AND EYENUT ASSEMBLY IS TO BE DETERMINED FROM DRG: 520331.
6. LONGROD INSULATORS ARE TO BE USED UNDER NORMAL CONDITIONS.
7. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
8. ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
9. THE RATING OF THE FUSE ELEMENT IS TO BE SELECTED TO COMPLY WITH THE REQUIREMENTS OF TECHNICAL GUIDE T0024.
10. 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.
11. ONLY THE 2700mm CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 15232 & 514377 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
12. 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.
13. REFER TO DESIGNER SAFETY REPORT D21/77147 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
26	STEP - POLE, SCREW-IN (SEE NOTE 3)	250144	185198	A/R
25	LUG - COMPRESSION (TO SUIT CONDUCTOR)	514053		6
24	FUSE - 24kV, LINK, BORIC ACID, S&C SMU-20 (SEE NOTE 9)			3
23	LINK - ISOLATING, 12/24kV, OUTDOOR, SINGLE INSULATOR		58750	3
	FUSEBASE - 24kV, DROPOUT, S&C SMD-20, 170kV BIL		181441	
22	WASHER - FLAT, M16, GALVANISED	518081	177984	3
21	WASHER - CONICAL, M16, GALVANISED	518082	H39647	3
20	WASHER - SQUARE, 50x50x6mm, GALVANISED (Ø18mm HOLE)	518081	H39257	3
19	BOLT & NUT - M16x140mm, HEX., GALVANISED	515466	H37506	3
18	INSULATOR - 11/22kV LONGROD, STRING ARRANGEMENT AR-2 (SEE NOTE 6)	565715		6
17	BLOCK - GAIN, ALUMINIUM, 100mm		146274	1
16	EYENUT - M20, GALVANISED (SEE NOTE 5)	513951	H38853	3
15	WASHER - FLAT, M20, GALVANISED (USE WITH 2400mm & 2700mm CROSSARMS)	518081	177986	2
14	WASHER - FLAT, M20, GALVANISED	518081	177986	1
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 10 & 11)	514377	H23787	1
	CROSSARM - 2400x125x100mm, TYPE H2, HARDWOOD (SEE NOTES 10 & 11)	15232	71910	
	CROSSARM - 2700x150x100mm, TYPE C, HARDWOOD (SEE NOTES 10 & 11)	514373	H23907	
3	SCREW - COACH, M12x100mm, GALVANISED		H40484	1
2	BRACE - CROSSARM, ANGLE, TYPE H, 740mm, GALVANISED (SEE NOTE 12)	46	99119	1
	BRACE - CROSSARM, ANGLE, 920mm, GALVANISED (SEE NOTE 12)	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
AMENDMENTS

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
DESIGNED	P.JONES
DRAWN	P.RIOS
CHECKED	C.ROSKELL
APPROVED	G.FORD
DATE	31/03/2021
PROJECT NUMBER	STD
PROJTRAK NUMBER	-

STANDARD CONSTRUCTION
22kV THROUGH TERMINATION
CONSTRUCTION WITH
DROPOUT FUSES OR ISOLATING LINKS
3-60

SIZE	DRAWING No	SHEET	AMD
A2	255643	01	0

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