

A

B

C

D

E

F

A

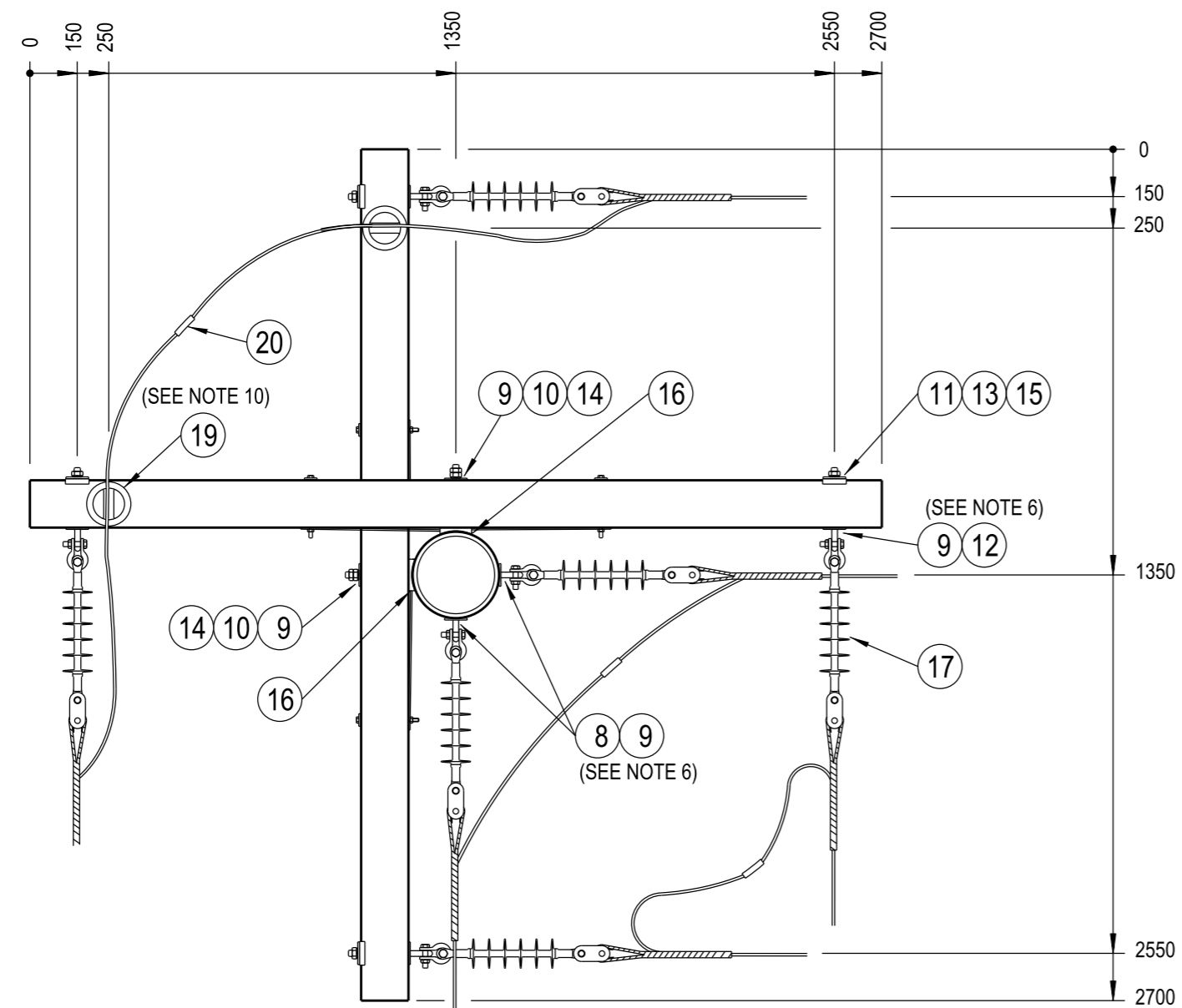
B

C

D

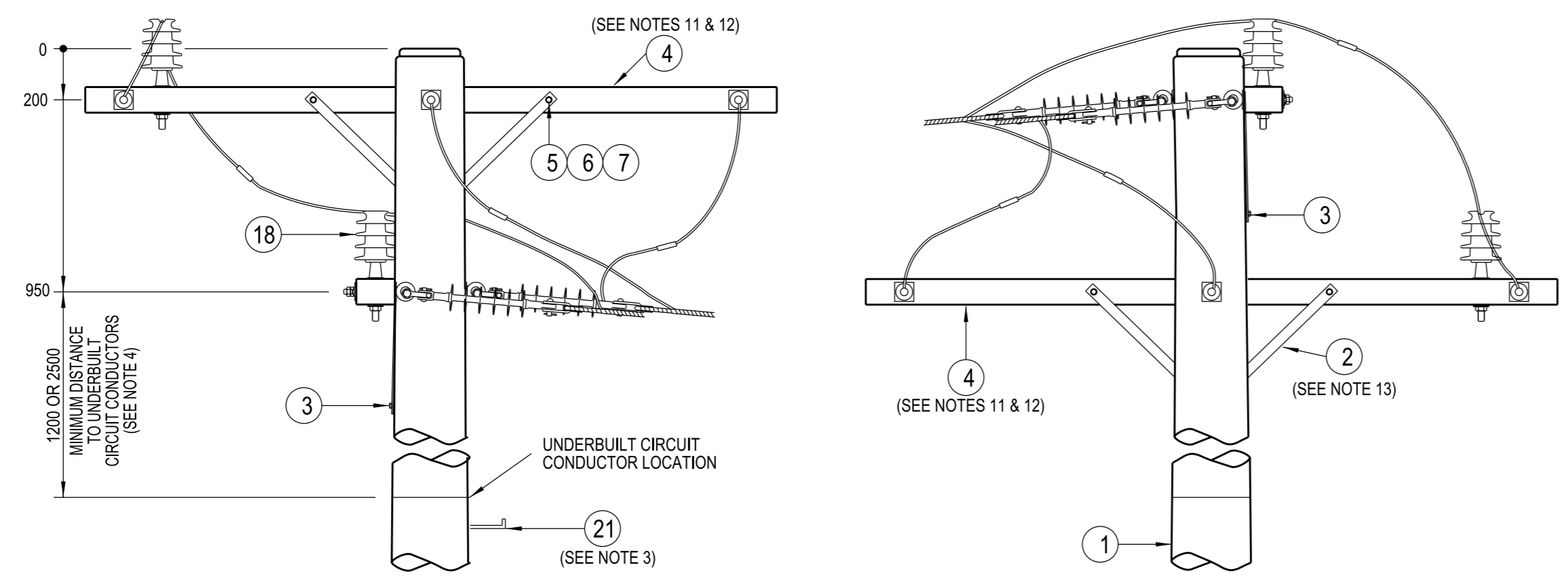
E

F



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 NS126.
4. 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.
5. ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
6. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG : 520324.
7. LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
8. POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
9. NON-TENSION COMPRESSION SLEEVES TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
10. USE THE ANGLE TYPE CONDUCTOR TIE ARRANGEMENT AS SHOWN ON DRG : 514038.
11. 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 3070mm COMPOSITE FIBRE OR 3000mm STEEL CROSSARM IS TO BE USED WHEN THE MAXIMUM LOAD OF A TIMBER CROSSARM IS EXCEEDED.
12. ONLY THE 2700mm CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS : 15232, 514377 & 237491 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
13. THE 690mm CROSSARM BRACES ARE TO BE USED ON A 2700mm, 3000mm & 3070mm CROSSARM. THE 740mm CROSSARM BRACE IS TO BE USED ON A 2400mm CROSSARM.



| ITEM | DESCRIPTION | DRG. No | STOCK CODE | QTY |
|------|--|---------|------------|-----|
| 21 | STEP - POLE, SCREW-IN (SEE NOTE 3) | 250144 | 185198 | A/R |
| 20 | JOINT - NON TENSION, COMPRESSION (TO SUIT CONDUCTOR) | 514053 | | 3 |
| 19 | TIE - CONDUCTOR, HIGH VOLTAGE, SUPPORT ARRANGEMENT (SEE NOTE 10) | 514038 | | 2m |
| 18 | INSULATOR - 11/22kV AERODYNAMIC, (22/450) AND PIN ARRANGEMENT | 513997 | | 2 |
| 17 | INSULATOR - 11/22kV LONGROD, STRING ARRANGEMENT AR -2 | 565715 | | 6 |
| 16 | BLOCK - GAIN, ALUMINIUM, 125mm (USE WITH 3070mm CROSSARM) | | 146282 | 2 |
| | BLOCK - GAIN, ALUMINIUM, 100mm (USE WITH 2400mm, 2700mm & 3000mm CROSSARMS) | | 146274 | |
| 15 | WASHER - FLAT, M20, GALVANISED (USE WITH 2400mm & 2700mm CROSSARMS) | 518081 | 177986 | 4 |
| 14 | WASHER - FLAT, M20, GALVANISED | 518081 | 177986 | 2 |
| 13 | WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE) (USE WITH 3070mm CROSSARM) | 518081 | H39231 | 4 |
| | WASHER - LIP, M24, GALVANISED (USE WITH 2400mm, 2700mm & 3000mm CROSSARMS) | 518081 | 176912 | |
| 12 | EYEBOLT - M20x200mm, GALVANISED (SEE NOTE 6) | 513653 | H37881 | 4 |
| 11 | WASHER - SPRING, M20, GALVANISED (USE WITH 3000mm & 3070mm CROSSARMS) | 518082 | 175569 | 4 |
| | WASHER - CONICAL, M20, GALVANISED (USE WITH 2400mm & 2700mm CROSSARMS) | 518082 | H39655 | |
| 10 | WASHER - CONICAL, M20, GALVANISED | 518082 | H39655 | 2 |
| 9 | WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE) | 518081 | H39231 | 8 |
| 8 | EYEBOLT - M20, GALVANISED (LENGTH TO SUIT POLE) (SEE NOTE 6) | 513653 | | 2 |
| | WASHER - SPRING, M12, GALVANISED (USE WITH 3000mm & 3070mm CROSSARMS) | 518082 | H12047 | 4 |
| 7 | WASHER - CONICAL, M12, GALVANISED (USE WITH 2400mm CROSSARM) | 518082 | H39639 | 2 |
| | WASHER - CONICAL, M12, GALVANISED (USE WITH 2700mm CROSSARM) | 518082 | H39639 | |
| 6 | WASHER - FLAT, M12, GALVANISED (USE WITH 2400mm CROSSARM) | 518081 | 177982 | 4 |
| | WASHER - FLAT, M12, GALVANISED (USE WITH 2700mm, 3000mm & 3070mm CROSSARMS) | 518081 | 177982 | |
| 5 | BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 3070mm CROSSARM) | 515466 | 46847 | 4 |
| | BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm CROSSARM) | 515466 | 46847 | |
| | BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2700mm & 3000mm CROSSARMS) | 515466 | 46888 | 4 |
| | CROSSARM - 3070x125x125mm, ITEM 3, COMPOSITE FIBRE (SEE NOTES 11 & 12) | 237491 | 183935 | |
| 4 | CROSSARM - 3000x150x100x5mm, RHS, GALVANISED (SEE NOTES 11 & 12) | 514377 | H23787 | 2 |
| | 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 | 2 |
| 2 | BRACE - CROSSARM, ANGLE, TYPE H, 740mm, GALVANISED (SEE NOTE 13) | 46 | 99119 | 2 |
| | BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 13) | 514385 | H17738 | 4 |
| 1 | POLE - TIMBER (AS REQUIRED) | 513988 | | 1 |

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

CAD DRAWING
DO NOT MANUALLY AMEND
AMENDMENTS
DWN: PATRICIA RIOS
CHKD: PHILLIP JONES
DATE: 16/08/2019
M20 FLAT WASHER & 2400mm
CROSSARM OPTION ADDED.
NOTES & MATERIAL LIST AMENDED.
SHEET SIZE CHANGED.
APPD BY: GLENN FORD

| DESCRIPTION | DRG. No |
|---|---------|
| COMPOSITE FIBRE CROSSARM MECHANICAL LOAD REQUIREMENTS | 237491 |
| HV TERMINATION STEEL CROSSARM CONSTRUCTION DETAILS | 514377 |
| WOODEN CROSSARMS FOR 11kV LINES | 15232 |
| HV CONDUCTOR TIE SUPPORT ARRANGEMENTS | 514038 |
| 20mm EYEBOLT LOADING & DEVIATION GRAPH | 520324 |

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND,
NSW 2287

| SCALE | 1:20 | STANDARD CONSTRUCTION |
|------------------|---------------|------------------------------|
| DESIGNED | - | 11kV CORNER POLE TERMINATION |
| DRAWN | PATRICIA RIOS | CONSTRUCTION |
| CHECKED | W.G | 2-12 |
| APPROVED | I.NICHOLS | |
| DATE | 07/11/94 | |
| PROJECT NUMBER | STD | |
| PROJ/TRAK NUMBER | - | |
| SIZE | A2 | DRAWING No |
| | | 513916 |
| | | SHEET |
| | | 01 |
| | | AMD |
| | | 17 |