



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. PHASE CONDUCTOR AND OVERHEAD EARTHWIRE SIZE.
 - e. VARIATIONS TO STANDARD CROSSARM REQUIREMENTS.
 - f. STAY REQUIREMENTS.
 - g. DEVIATION ANGLE.
 - h. ASSESSED EARTHING REQUIREMENTS.
2. WHEN DESIGNING UNDERBUILT CIRCUITS ON A 33kV STRUCTURE, THE POSSIBLE USE OF LIVE LINE WORKING PROCEDURES MUST BE CONSIDERED WHEN NOMINATING THE CIRCUIT SEPARATION TO ALLOW A MINIMUM CLEARANCE OF 2500mm IF REQUIRED.
3. THE LOAD AND DEVIATION ALLOWABLE ON THE EYEBOLT IS TO BE DETERMINED FROM DRG: 520324.
4. LONGROD INSULATORS TO BE USED UNDER NORMAL CONDITIONS.
5. THE CROSSARM BRACE ATTACHMENT POINT ON A CONCRETE POLE IS TO BE AN M12 STAINLESS STEEL EARTH FERRULE.
6. THE OHEW IS TO BE BONDED TO AN M12 STAINLESS STEEL EARTH FERRULE ON THE CONCRETE POLE.
7. COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERRED OPTION UNDER NORMAL CIRCUMSTANCES.
8. A 2706mm COMPOSITE FIBRE CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. A LONGER COMPOSITE FIBRE CROSSARM IS TO BE USED WHERE ADDITIONAL MID SPAN SEPARATION IS REQUIRED. A STEEL CROSSARM IS TO BE USED WHEN THE MAXIMUM LOAD OF THE ALTERNATE CROSSARMS IS EXCEEDED.
9. ONLY THE 2706mm COMPOSITE FIBRE CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 262732 & 514377 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
10. FOR DETAILS OF APPROVED ALTERNATE WAGNER COMPOSITE FIBRE CROSSARMS, REFER TO DRG: 265964.
11. ONLY THE SINGLE PHASE CONDUCTOR WITH OPGW SPLICE BOX TERMINATION OVERHEAD EARTHWIRE OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING.
12. USE THE OPGW SPLICE BOX TERMINATION ARRANGEMENT WHEN ERECTING AN OPGW OVERHEAD EARTHWIRE. USE THE STANDARD EARTHWIRE TERMINATION ARRANGEMENT WHEN ERECTING A NON OPGW OVERHEAD EARTHWIRE.
13. POLE STEPS SHOULD ONLY BE INSTALLED ON POLES WHERE ACCESS FOR NORMAL MAINTENANCE VEHICLES CANNOT BE MAINTAINED FOR THE LIFE OF THE POLE. IF POLE STEPS ARE INSTALLED, THEY ARE TO COMPLY WITH THE REQUIREMENTS OF NETWORK STANDARD NS128.
14. REFER TO DESIGNER SAFETY REPORT D22/261971 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

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|---|-------------------------------------------------------------------------------------------------------------|--------|-----|
| 8 | STEP - POLE (SEE NOTE 13) | 514084 | A/R |
| 7 | OPGW - SPLICE BOX & COILED CABLE BRACKET, CONDUCTOR, MOUNTING ARRANGEMENT (USE WITH OPGW OHEW OPTION ONLY) | 565743 | 1 |
| 6 | EARTHWIRE - TERMINATION, OVERHEAD, MOUNTING, ARRANGEMENT -2B (SEE NOTES 11 & 12) | 519450 | 1 |
| | OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT -2B (SEE NOTES 11 & 12) | 565747 | |
| 5 | INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 4 & 11) | 250120 | 3 |
| | INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT -2 (SEE NOTES 4 & 11) | 158754 | |
| 4 | CROSSARM - MOUNTING ARRANGEMENT -2a (COMPOSITE FIBRE OR GALVANISED STEEL CROSSARM) (SEE NOTES 7, 8, 9 & 10) | 514176 | 1 |
| 3 | FOOTING - CONCRETE POLE, ARRANGEMENT (SEE NOTE 1) | 512331 | 1 |
| 2 | EARTHING - CONCRETE/STEEL, SINGLE POLE, BUTT, ARRANGEMENT | 520209 | 1 |
| 1 | POLE - CONCRETE (AS REQUIRED) | | 1 |

| ITEM | DESCRIPTION | DRG. No | QTY | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <tr> <td rowspan="6"> <p>NETWORK STANDARD Ausgrid 145 NEWCASTLE RD WALLSEND, NSW 2287</p> </td> <td>SCALE</td> <td>1:25</td> <td rowspan="6"> STANDARD CONSTRUCTION 33kV TERMINATION CONSTRUCTION WITH OVERHEAD EARTHWIRE 4-10C/E </td> </tr> <tr> <td>DESIGNED</td> <td>PHIL JONES</td> </tr> <tr> <td>DRAWN</td> <td>PATRICIA RIOS</td> </tr> <tr> <td>CHECKED</td> <td>PHIL JONES</td> </tr> <tr> <td>APPROVED</td> <td>STEPHEN CONNOR</td> </tr> <tr> <td>DATE</td> <td>20/12/2007</td> </tr> <tr> <td>PROJECT NUMBER</td> <td>STD</td> <td></td> </tr> <tr> <td>PROJTRAK NUMBER</td> <td>-</td> <td></td> </tr> </table> | | | | <p>NETWORK STANDARD Ausgrid 145 NEWCASTLE RD WALLSEND, NSW 2287</p> | SCALE | 1:25 | STANDARD CONSTRUCTION 33kV TERMINATION CONSTRUCTION WITH OVERHEAD EARTHWIRE 4-10C/E | DESIGNED | PHIL JONES | DRAWN | PATRICIA RIOS | CHECKED | PHIL JONES | APPROVED | STEPHEN CONNOR | DATE | 20/12/2007 | PROJECT NUMBER | STD | | PROJTRAK NUMBER | - | |
| <p>NETWORK STANDARD Ausgrid 145 NEWCASTLE RD WALLSEND, NSW 2287</p> | SCALE | 1:25 | STANDARD CONSTRUCTION 33kV TERMINATION CONSTRUCTION WITH OVERHEAD EARTHWIRE 4-10C/E | | | | | | | | | | | | | | | | | | | | |
| | DESIGNED | PHIL JONES | | | | | | | | | | | | | | | | | | | | | |
| | DRAWN | PATRICIA RIOS | | | | | | | | | | | | | | | | | | | | | |
| | CHECKED | PHIL JONES | | | | | | | | | | | | | | | | | | | | | |
| | APPROVED | STEPHEN CONNOR | | | | | | | | | | | | | | | | | | | | | |
| | DATE | 20/12/2007 | | | | | | | | | | | | | | | | | | | | | |
| PROJECT NUMBER | STD | | | | | | | | | | | | | | | | | | | | | | |
| PROJTRAK NUMBER | - | | | | | | | | | | | | | | | | | | | | | | |

| | SIZE | A2 | |
| | DRAWING No | 174184 | |
| | SHEET | 1 | |
| | AMD | 3 | |

| NO. | DESCRIPTION | DRG. No | QTY |
|-----|----------------------------------------------------|---------|-----|
| 1 | COMPOSITE FIBRE CROSSARMS WAGNER SPECIFICATION | 265964 | |
| 2 | COMPOSITE FIBRE CROSSARMS SPECIFICATION | 262732 | |
| 3 | HV TERMINATION STEEL CROSSARM CONSTRUCTION DETAILS | 514377 | |
| 4 | 20mm EYEBOLT LOADING & DEVIATION GRAPH | 520324 | |

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| CAD DRAWING DO NOT MANUALLY AMEND A.M.E.N.D.M.E.N.T.S. DWN: GARY HUGHES CHKD: GARY CRAIG DATE: 14/10/2013 AUSGRID BORDER APPLIED. | | APPD: GLENN FORD DWN: P.R. CHKD: P.J. APPD: G.F. | | DATE: 08/11/2022 MULTIPLE CROSSARM OPTION & FOUNDATION DETAILS ADDED. NOTES & MATERIAL LIST AMENDED. DUAL CONDUCTOR & OHEW OPTIONS ADDED. | | DWN: P.R. CHKD: P.J. APPD: G.F. | | DATE: 23/07/2024 COMPOSITE CROSSARMS ADDED TO MATERIAL LIST. NOTES & DIMENSIONS AMENDED. SHEET SIZE CHANGED. | |
| 1 | 20110901 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |